PENTAIR

DigiTrace

DigiTrace Supervisor Enterprise Edition

Heat-Tracing Controller Configuration and Monitoring Software

INSTALLATION MANUAL

INSTALL-120 (Europe)

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Section 1 – Introduction

1.1 Welcome

The DigiTrace Supervisor heat-tracing controller configuration and monitoring software provides a graphical user interface for DigiTrace communications and controller products. The software supports the NGC series controllers, 780 Series/GCC-9000 Group Communications Controllers, DigiTrace T2000 AC 2000+ alarm/communications interface cards, DigiTrace 910/915/920 Heat Trace Controllers and/or legacy DigiTrace Controllers (except the DigiTrace 200N) using the Modbus® protocol.

The software allows the user to configure and monitor any DigiTrace controller which has the appropriate communications interface installed from one central location. The software also incorporates advanced features such as data logging and trending, batch and recipe processing, scheduled events, etc.

Please refer to the *DigiTrace Supervisor Operations Manual* (H57576) for more information on features and capabilities.

1.2 Vital Information

IMPORTANT: All information, including illustrations, is believed to be reliable. Users, however, should independently evaluate the suitability of each product for their particular application. Pentair Thermal Management makes no warranties as to the accuracy or completeness of the information, and disclaims any liability regarding its use.

Pentair Thermal Management only obligations are those in the Pentair Thermal Management Standard Terms and Conditions of Sale for this product, and in no case will Pentair Thermal Management or its distributors be liable for any incidental, indirect, or consequential damages arising from the sale, resale, use, or misuse of the product. Specifications are subject to change without notice. In addition, Pentair Thermal Management reserves the right to make changes—without notification to Buyer—to processing or materials that do not affect compliance with any applicable specification.

1.3 User Responsibilities

The performance, reliability and safety of your heat-tracing system depend on proper design, selection and installation. The DigiTrace Supervisor program will help you configure and monitor a system that meets your requirements, but it is only a tool. It assumes that your input is accurate, that you are familiar with heat-tracing system design and configuration, and that you will ensure that all components of the heat-tracing system are installed, maintained and used as intended. The configuration of the DigiTrace Supervisor program should be reviewed by a knowledgeable engineer to ensure it is appropriate for your application. Additional information relating to safety, design and installation is contained in Design Guides, Installation Manuals, Data Sheets, and other literature available from Pentair Thermal Management. Be sure to consult these documents as needed.

1.4 Safety Warnings

There are important safety warnings shipped with our products and printed in our literature. Be sure to read and follow them to reduce the risk of fire, shock or personal injury. If you have any questions, contact your local Representative or Pentair Thermal Management directly.

1.5 Technical Support

In North America, contact Pentair Thermal Management directly at:

North America
Pentair Thermal Management
7433 Harwin Drive
Houston, TX 77036
USA
Tel: 800-545-6258
Tel: 650-216-1526
Fax: 800-527-5703
Fax: 650-474-7711
email: thermal.info@pentair.com

Or for other parts of the world, contact Pentair Thermal Management at:

Europe, Middle East, Africa
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3001 Leuven
Belgium / België / Belgique
Tel: +32 16 213 511
Fax: +32 16 213 603
email: thermal.info@pentair.com

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20F, Innovation Building
1009 Yi Shan Rd,
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Tel: +86 21 2412 1688
Fax: +86 21 5426 2917
email: cn.thermal.info@pentair.com

Latin America
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R. Capitão Francisco Teixeira Nogueira, 233
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Brazil
Tel: +1.713.868.4800
Fax: +1.713.868.2333
email: thermal.info@pentair.com

Section 2 – System Overview

The software allows the user to configure and monitor any DigiTrace controller installed in the field which has the appropriate communications interface installed from one central location. The software also supports alarm monitoring, with the ability to acknowledge and clear alarms.

2.1 System Requirements

The DigiTrace Supervisor software is designed to run in a networked environment using one or more computers. The software is composed of three components, and it is assumed that all computers are networked together on a corporate intranet. Implementation details of this type of networking environment are beyond the scope of this document.

- DigiTrace Supervisor (DTS) Master Server
- DigiTrace Supervisor (DTS) Slave Server
- DigiTrace Supervisor (DTS) Client

The DTS Master Server and DTS Slave Server applications must be installed and run on separate computers. DTS Slave Servers are optional; however you may add new DTS Slave Servers to your EHT system as required. Using DTS Slave Servers allows your EHT system to distribute the communications workload. For example, instead of one computer providing the monitoring for all devices in your system, one or more slave servers can be configured to monitor for alarms at the same time.

The DTS Client provides the user interface and can be installed on any computers that require user interaction with the system. Once the DTS Master Server, DTS Slave Server(s) and DTS Client(s) are installed, multiple users can access the DigiTrace Supervisor EHT system from different client computers simultaneously.

The computer hardware required to run DTS Master Server, DTS Slave Server and DTS Client are outlined in the following sections.

2.1.1 TYPICAL SYSTEM ARCHITECTURES

While many DTS system architectures are possible, they will generally fall into one of three types, and these in turn will use either SQL Express or SQL Server for their databases. This installation manual discusses the DTS Enterprise installation only, which uses SQL Server. For DTS installation which uses SQL Express, refer to the *Installation Manual for DigiTrace Supervisor Standard* (H57988).

- **Single Master Server, no Slave Servers, Single User (Client)**. This type of installation will typically use the SQL Express database ("Standard") version of DigiTrace Supervisor.

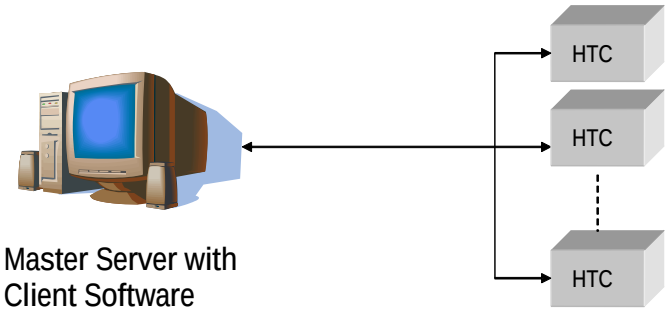

Figure 2-1-1 Typical single master, single client system

- **Single Master Server, no Slave Servers, Multiple Users (Clients).** This architecture may be SQL EXPRESS -based as long the number of simultaneous users is limited to a maximum of four. Due to SQL EXPRESS database limitations, no performance guarantees can be made in all situations with this many Users. For example, if several data trending or batch jobs are being run simultaneously, only one or two Users may be able to connect without impacting system performance. Applications that require more Users or the ability to have a larger number of batch/trending/configuration jobs must use the SQL-based Enterprise version of DigiTrace Supervisor.

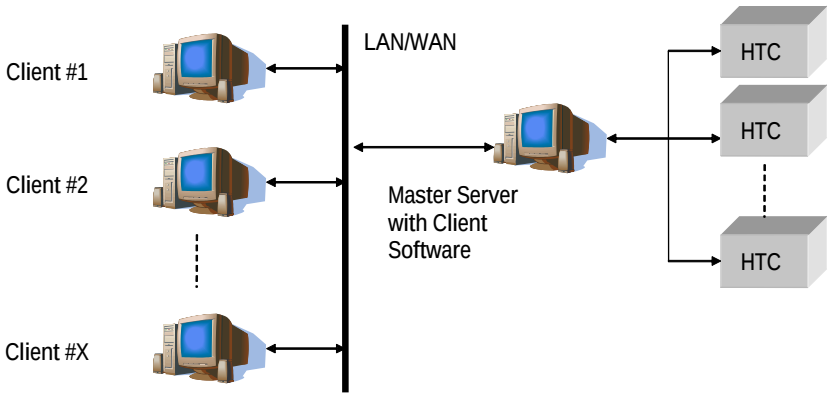

Figure 2-1-2 Typical single master, multiple client system

- **Single Master Server, one or more Slave Servers, Multiple Users (Clients).** This topology represents the largest system type, where multiple computers are used to distribute the communications and processing workload. This type of installation will always use the SQL-based Enterprise version of DigiTrace Supervisor and will support a large number of simultaneous Users and data processing jobs.

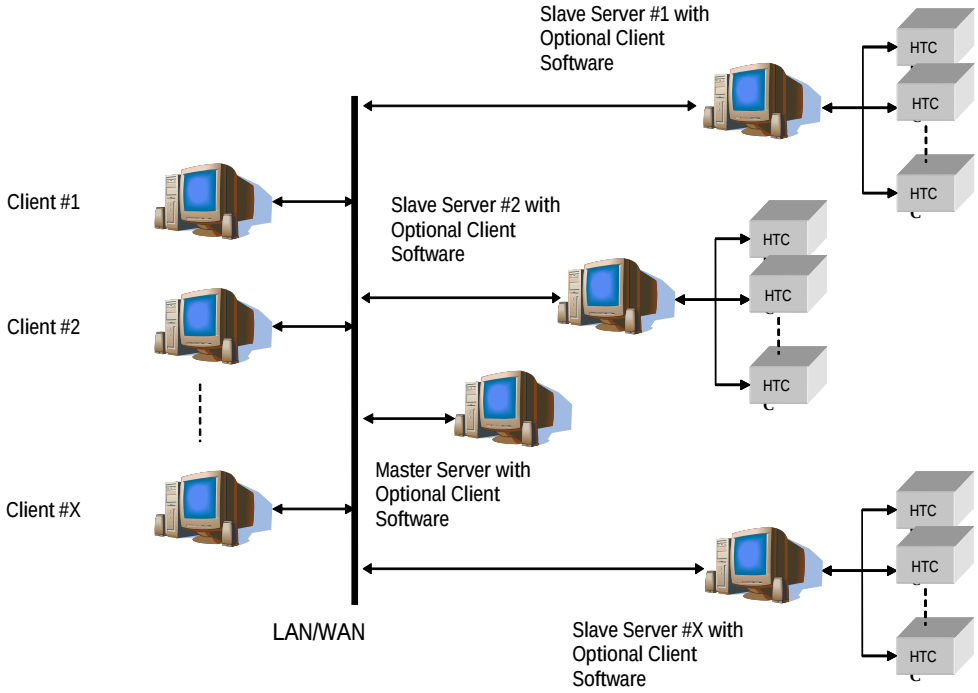

Figure 2-1-3 Typical single master, multi-slave server, multiple client system

2.1.2 DIGITRACE SUPERVISOR (DTS) MASTER SERVER

To effectively use the software, the following configuration is required:

- A Pentium® 4 – 2.4GHz or faster (Recommended), Pentium III – 500 MHz (Minimum) IBM-compatible personal computer. Large systems using multiple Slave Servers should consider the use of a higher speed/multiple processor Master Server computer for best performance. Consult Pentair Thermal Management Applications Engineering for guidance.
- A hard disk with at least 4 gigabytes of free space (Recommended), 2 gigabytes (Minimum)
- 1 gigabyte of RAM (Recommended), 512 megabytes of RAM (Minimum)
- CD-ROM Drive
- 1 or more available serial ports
- A mouse or other compatible pointing device
- SVGA display with 800x600 resolution
- Standard configurations using SQL EXPRESS : Windows® XP SP3, Windows Vista® SP1, Windows Server 2003 SP2, Windows Server 2008, or Windows® 7
- Multi-User/Server Capable configurations using SQL Server: Windows Server 2008, Windows Server 2003, Windows Vista SP1, Windows® 7 on the computer where the SQL Server is installed
- Microsoft .NET® Framework version 4.0
- Network connectivity

2.1.3 DIGITRACE SUPERVISOR (DTS) SLAVE SERVER

To effectively use the software, the following configuration is required:

- A Pentium 4 – 1GHz or faster (Recommended), Pentium III – 300 MHz (Minimum) IBM-compatible personal computer
- A hard disk with at least 1 gigabyte of free space
- 512 megabytes of RAM (Recommended), 256 megabytes of RAM (Minimum)
- CD-ROM Drive
- 1 or more available serial ports
- A mouse or other compatible pointing device
- SVGA display with 800x600 resolution
- Windows XP SP3, Windows Server 2003 SP1, Windows Server 2008, Windows Vista SP1, or
  Windows 7
- Microsoft .NET Framework version 4.0
- Network connectivity

2.1.4 DIGITRACE SUPERVISOR (DTS) CLIENT

- To effectively use the software, the following configuration is required:
- A Pentium III – 500MHz or faster (Recommended), Pentium II – 300 MHz (Minimum) IBM-compatible personal computer
- A hard disk with at least 1 gigabyte of free space
- 512 megabytes of RAM (Recommended), 256 megabytes of RAM (Minimum)
- CD-ROM Drive
- A mouse or other compatible pointing device
- SVGA display with 800x600 resolution

- Windows XP SP3, Windows Server 2003 SP1, Windows Server 2008, Windows Vista SP1, or
  Windows 7
- Microsoft .NET Framework version 4.0
- Network connectivity

Section 3 – Installing DigiTrace Supervisor

DigiTrace Supervisor's (DTS) installation wizard will install the DigiTrace Supervisor software on your PC's hard disk drive. You must already have Windows XP, Windows Server 2003, Windows Server 2008, Windows® Vista, or Windows 7 installed on your computer. If you are using an SQL database version (DigiTrace Supervisor Enterprise Edition), the computer on which the SQL Server is installed must have Windows Server 2003 SP1, Windows Server 2008, Windows Vista SP1 or Windows 7 pre-installed.

IMPORTANT: To install Windows, follow the installation procedure provided by Microsoft. Familiarity with the Windows environment is highly recommended, and it is assumed throughout this manual. Knowledge of the Windows environment will make this program easier to use and understand.

If you are upgrading an existing DigiTrace Supervisor installation which is version 1.30 or earlier, please refer to Section 15.3 "Converting DigiTrace Supervisor Databases" in the *DigiTrace Supervisor Operations Manual* (H57576) for information on how to convert your existing database.

IMPORTANT: Components should be installed in the order in which they are presented in this document.

3.1 Quick Start Guide

The following provides a brief outline of the installation process for the Enterprise (SQL) version of DigiTrace Supervisor (DTS). Detailed instructions may be found in each of the Sections that are referenced within the individual steps:

3.1.1 ENTERPRISE (SQL SERVER) DTS INSTALLATIONS:

1. Setup the Master Computer:
   A. Install the SQL Server (see Section 3.2, 3.2 or 3.6).
   B. Install the DigiTrace Supervisor Master Server application (see Section 3.8).
   C. (Optional but Recommended) Install the DigiTrace Supervisor Client software if you want the user to be able to interact with the DigiTrace system from the Master computer (see Section 3.8.9).
2. Setup any Slave Server Computers:
   A. Install the DigiTrace Supervisor Slave Server application (see Section 3.8.7).
   B. (Optional) Install the DigiTrace Supervisor Client software if you want the user to be able to interact with the DigiTrace system from the Slave computer (see Section 3.8.9).
3. Setup any Client Computers:
   A. Install the DigiTrace Supervisor Client software (see Section 3.8.9).
4. Convert an existing database (optional):
   A. If you are upgrading from a previous version of DigiTrace Supervisor, PyroMaster, or TraceMaster software, you may import some of the system setup

information into the new software (see Sections 15.3 through 15.4 of the *DigiTrace Supervisor Operations Manual* (H57576) as appropriate).

5. Activate and Register your new software (see Section 4).

3.2 Installing Microsoft SQL Server 2000

To install Microsoft SQL Server 2000, insert the "DigiTrace Supervisor Disk 2 – Microsoft SQL Server 2000 Standard Edition" CD in your computer's CD-Rom drive. If the installation application does not start automatically, navigate to the CD-Rom drive (D:\ for example) and then double click on Autorun.exe.

IMPORTANT: This section applies to DigiTrace Supervisor Enterprise, version 2.1 and earlier. If you are installing version 2.2 or newer, you should refer to Section 3.6 of this guide.

IMPORTANT: If you are upgrading from a standard (SQL EXPRESS) version of DigiTrace Supervisor, be sure to follow the procedure in the SQL EXPRESS Installation manual to uninstall SQL EXPRESS first. Ensure that you have completed all of the steps or SQL Server may not install properly.

3.2.1 INSTALLING THE DATABASE SERVER COMPONENTS

Once the install screen is displayed, click on "SQL Server 2000 Components" and then select Install Database Server.

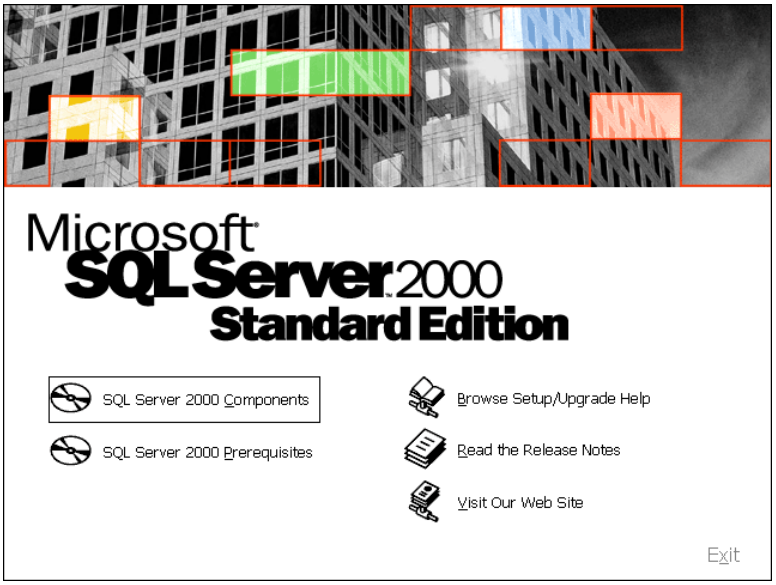

Figure 3-2-1 Install SQL Server 2000 components

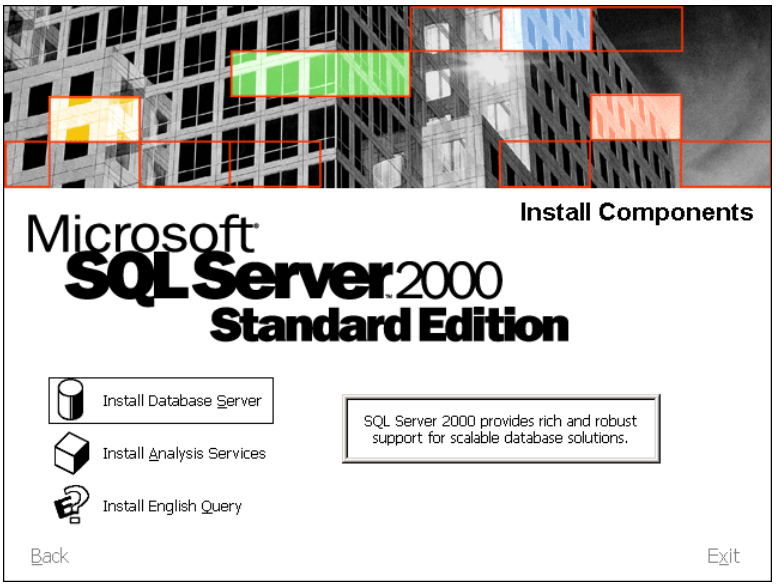

Figure 3-2-2 Install database server

Follow the on screen instructions. When the "Computer Name" screen appears, select Local Computer and then click "Next".

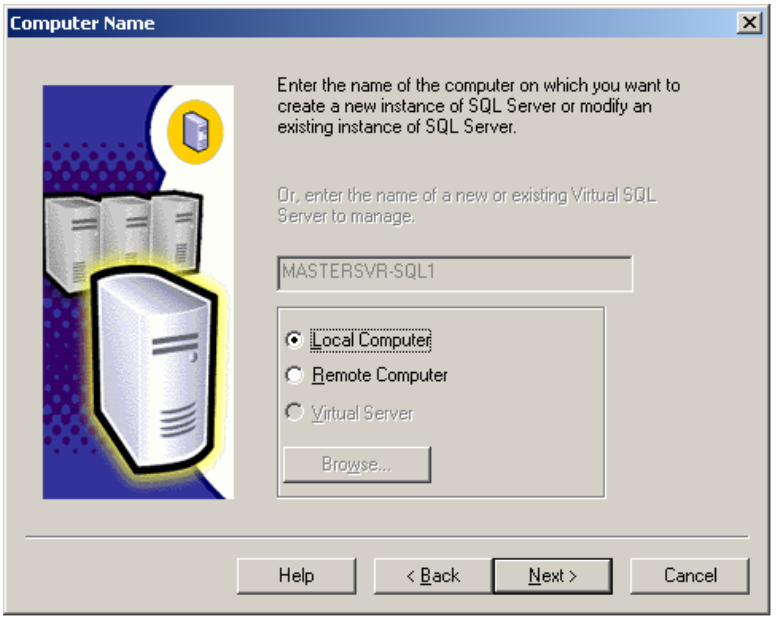
Computer Name
Enter the name of the computer on which you want to create a new instance of SQL Server or modify an existing instance of SQL Server.
Or, enter the name of a new or existing Virtual SQL Server to manage.
MASTERSVR-SQL1
Local Computer
Remote Computer
Virtual Server
Browse...
Help
< Back
Next >
Cancel

Figure 3-2-3 Computer name

Choose Create a new instance of SQL Server, or install Client Tools in the "Installation Selection" window. Click on "Next."

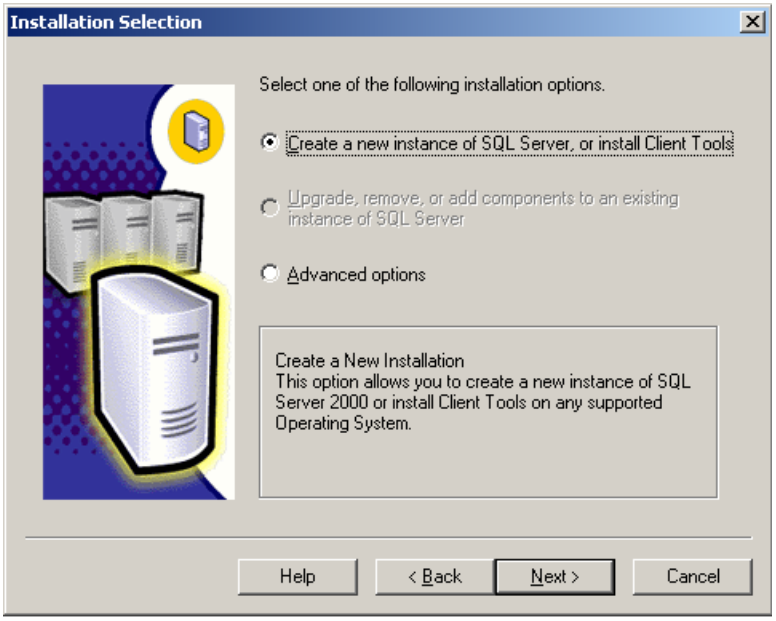
Installation Selection
Select one of the following installation options.
Create a new instance of SQL Server, or install Client Tools
Upgrade, remove, or add components to an existing instance of SQL Server
Advanced options
Create a New Installation
This option allows you to create a new instance of SQL Server 2000 or install Client Tools on any supported Operating System.
Help
< Back
Next >
Cancel

Figure 3-2-4 Create a new instance

Continue following the on screen directions. When the "Installation Definition" screen appears, select Server and Client Tools and then click on "Next."

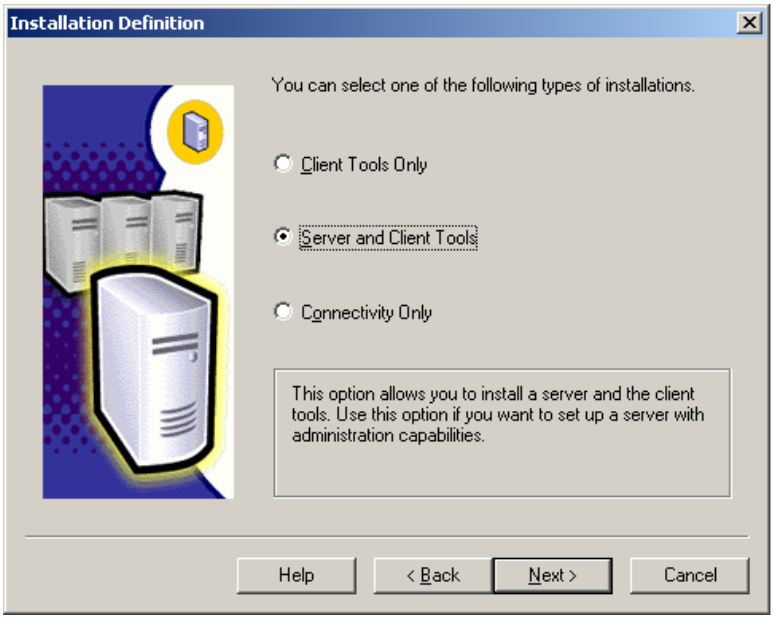
Installation Definition
You can select one of the following types of installations.
Client Tools Only
Server and Client Tools
Connectivity Only
This option allows you to install a server and the client tools. Use this option if you want to set up a server with administration capabilities.
Help
< Back
Next >
Cancel

Figure 3-2-5 Install client and server tools

In the Instance Name screen, leave the installation type selection set to Default. Click on "Next."

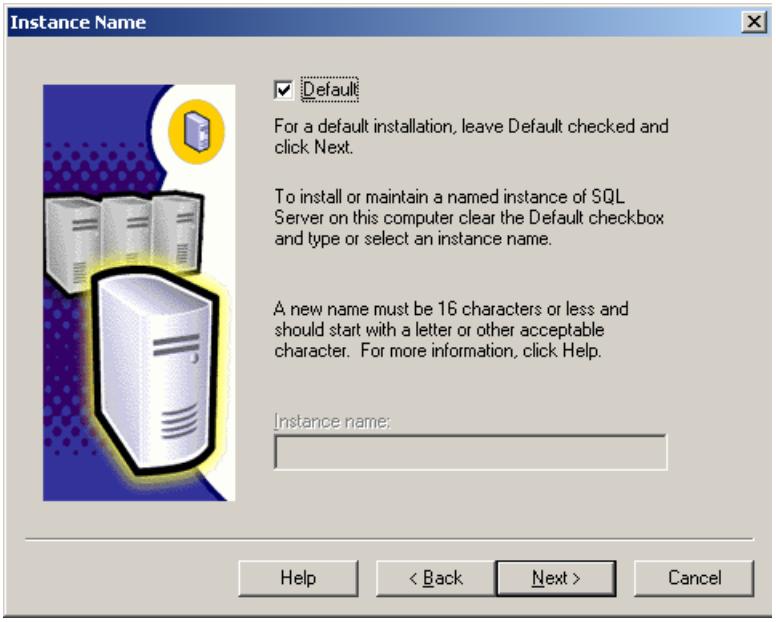
Instance Name
Default
For a default installation, leave Default checked and click Next.
To install or maintain a named instance of SQL Server on this computer clear the Default checkbox and type or select an instance name.
A new name must be 16 characters or less and should start with a letter or other acceptable character. For more information, click Help.
Instance name:
Help
< Back
Next >
Cancel

Figure 3-2-6 Default installation

Choose the Typical setup and then click "Next."

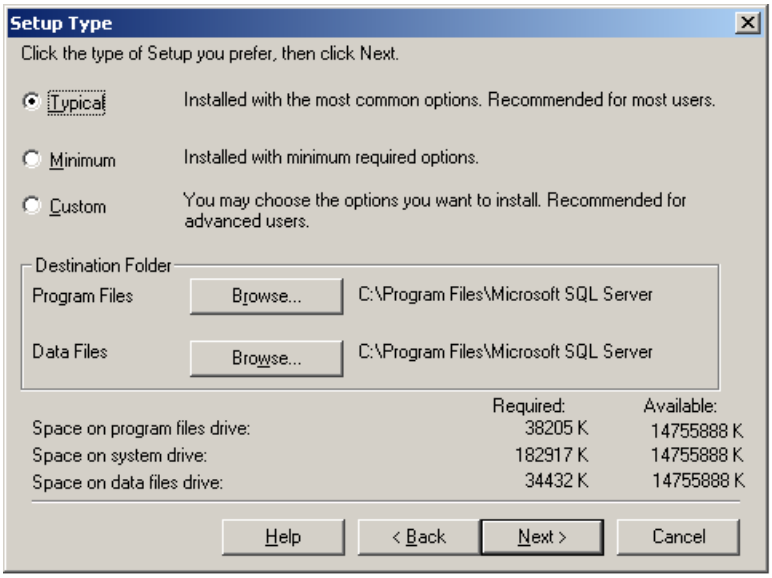

Figure 3-2-7 Typical Setup

Next, choose Use the same account for each service, Auto start SQL Server Service and ensure the Service Settings are set to Use the Local System account. Then click on "Next."

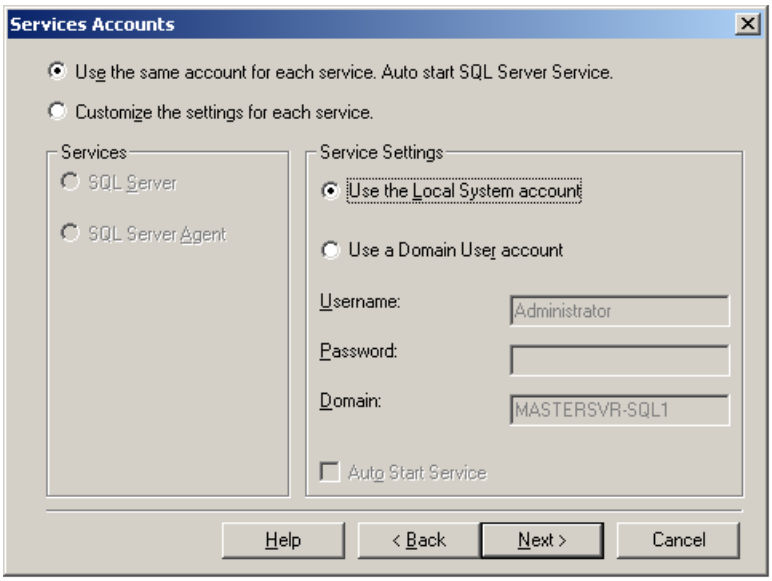

Figure 3-2-8 Services accounts

In the Authentication Mode window, choose Windows Authentication Mode, and then click on "Next."

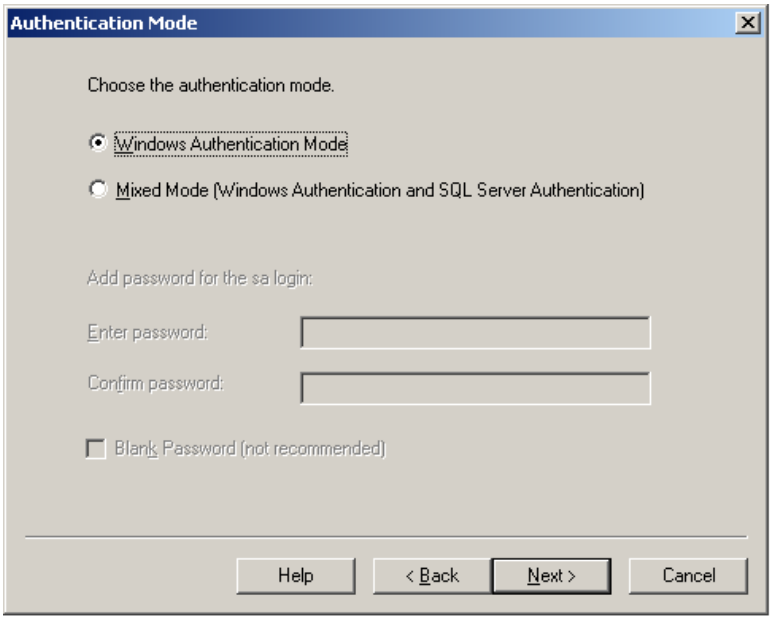

Figure 3-2-9 Authentication mode

Continue following the on screen directions. When prompted to choose the Licensing Mode, select the Per Seat mode and enter the total number of devices for which you have purchased an SQL license.

IMPORTANT: When purchased from Pentair Thermal Management, copies of DigiTrace Supervisor Enterprise include a SQL Server license and the appropriate number of SQL device (CALs) with the Supervisor software application. Simply add up the total number of Servers (Master+Slaves) and Users and enter this total into the devices box. For example, if you have purchased a package of DigiTrace Supervisor software that includes (1) Master Server, (2) Slave Servers, and (5) Users, you would enter a total of 8 devices in the box.

Once you have done this, click on "Next."

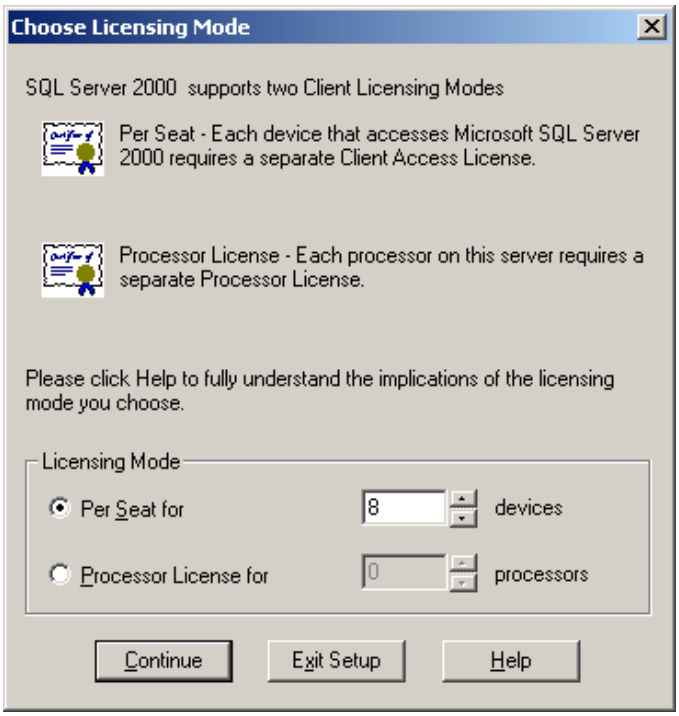
Choose Licensing Mode
SQL Server 2000 supports two Client Licensing Modes
Per Seat - Each device that accesses Microsoft SQL Server 2000 requires a separate Client Access License.
Processor License - Each processor on this server requires a separate Processor License.
Please click Help to fully understand the implications of the licensing mode you choose.
Licensing Mode
Per Seat for
8
devices
Processor License for
0
processors
Continue
Exit Setup
Help

Figure 3-2-10 Licensing modes

Follow the on screen instructions until the installation is complete.

If your DTS software package includes an additional CD labeled "DigiTrace Supervisor Disk 3 – Microsoft SQL Server 2000 Service Pack 3a," insert this disk into the computer's CD-Rom drive. If the installation application does not start automatically, navigate to the CD-Rom drive (D:\ for example) and then double click on Setup.bat.

The Welcome screen will be displayed. Click on "Next" to continue.

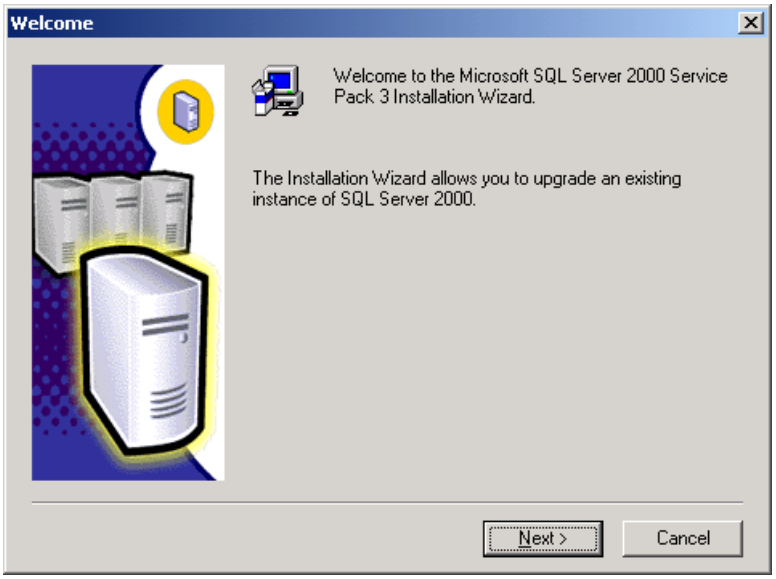
Welcome
Welcome to the Microsoft SQL Server 2000 Service Pack 3 Installation Wizard.
The Installation Wizard allows you to upgrade an existing instance of SQL Server 2000.
Next >
Cancel

Figure 3-2-11 Install SQL Server SP3

The program may display a license agreement. If you accept the terms of the agreement, press the Yes button and the installation will proceed. If you press the No button, the installation will terminate.

If you installed SQL Server by following the instructions earlier in this Section (see Figure 2-3-1-6), check the Default check box to select the instance name. If you have more than one instance of SQL Server installed on the computer, specify which instance to update by entering the instance name into the space provided. Click on "Next" to continue.

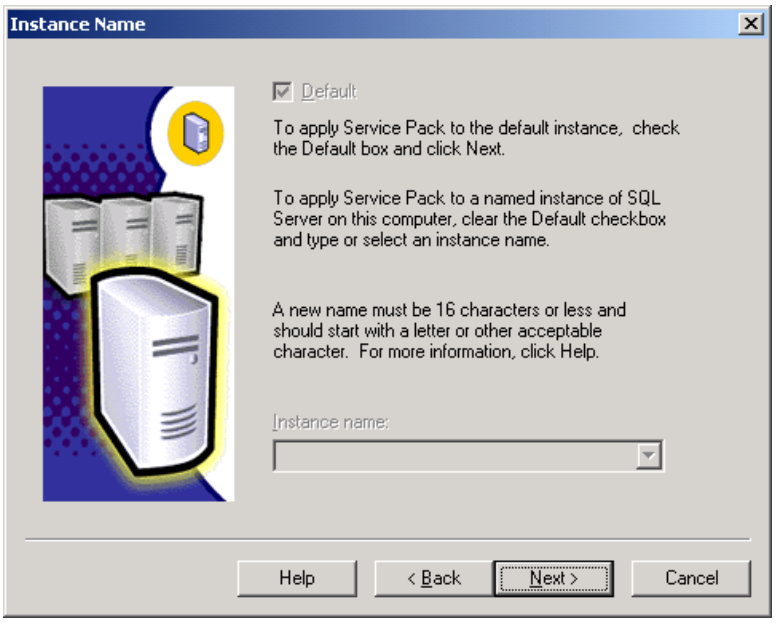
Instance Name
Default
To apply Service Pack to the default instance, check the Default box and click Next.
To apply Service Pack to a named instance of SQL Server on this computer, clear the Default checkbox and type or select an instance name.
A new name must be 16 characters or less and should start with a letter or other acceptable character. For more information, click Help.
Instance name:
Help
< Back
Next >
Cancel

Figure 3-2-12 Select the instance name to update

Next, select how to connect to the SQL Server. Choose Windows Authentication and click on "Next."

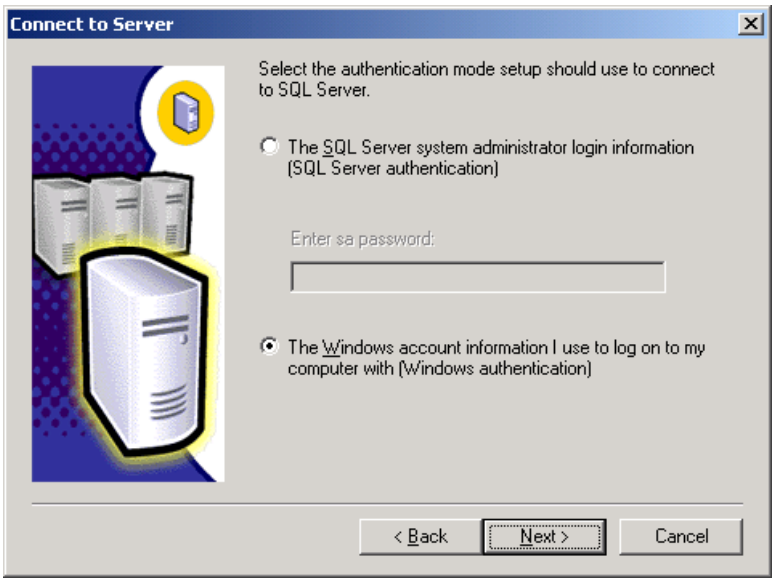
Connect to Server
Select the authentication mode setup should use to connect to SQL Server.
The SQL Server system administrator login information (SQL Server authentication)
Enter sa password:
The Windows account information I use to log on to my computer with (Windows authentication)
< Back
Next >
Cancel

Figure 3-2-13 Connect using Windows authentication

The installation program will attempt to authenticate the password. This may take a few minutes to complete. A Password Warning window may be displayed. Choose Ignore the security threat warning, leave password blank and click on "OK."

SA Password Warning
Service pack setup has detected that your SA password is set to blank. It is highly recommended that you set a strong password and secure your database server, even if you are using Windows authentication.
I do not want a blank password, set password :
Enter SA Password:
Confirm SA Password:
Ignore the security threat warning, leave the password blank.
OK

Figure 3-2-14 Leave SA password blank

When the SQL Server SP3 Setup window is displayed, check the Upgrade Microsoft Search and apply SQL Server 2000 SP3 box and click on "Continue."

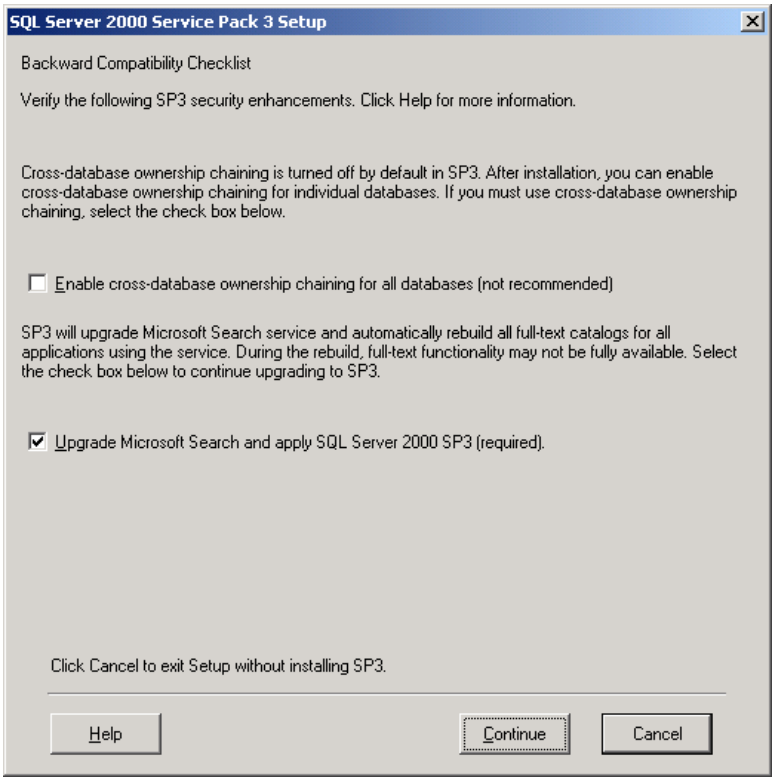
SQL Server 2000 Service Pack 3 Setup
Backward Compatibility Checklist
Verify the following SP3 security enhancements. Click Help for more information.
Cross-database ownership chaining is turned off by default in SP3. After installation, you can enable cross-database ownership chaining for individual databases. If you must use cross-database ownership chaining, select the check box below.
Enable cross-database ownership chaining for all databases (not recommended)
SP3 will upgrade Microsoft Search service and automatically rebuild all full-text catalogs for all applications using the service. During the rebuild, full-text functionality may not be fully available. Select the check box below to continue upgrading to SP3.
Upgrade Microsoft Search and apply SQL Server 2000 SP3 (required).
Click Cancel to exit Setup without installing SP3.
Help
Continue
Cancel

Figure 3-2-15 Apply SQL Server 2000 SP3

When the Error Reporting screen is displayed, ensure that the check box is **not** selected and then click on "OK."

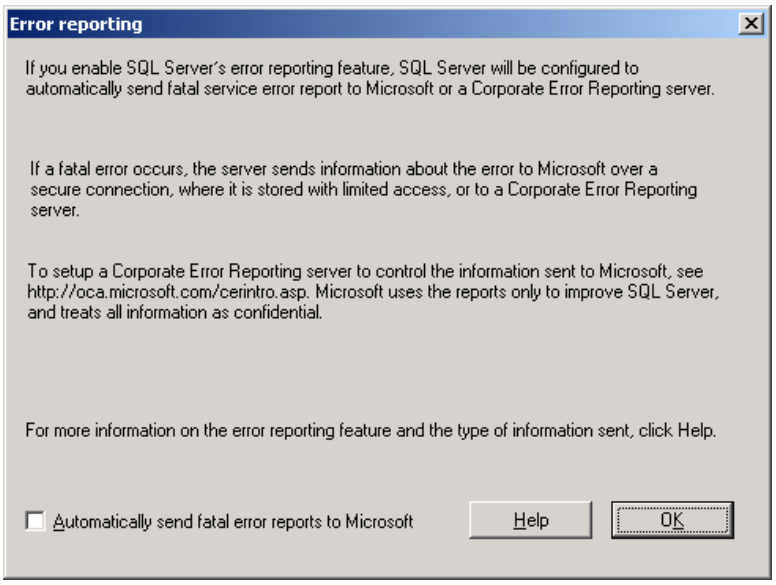
Error reporting
If you enable SQL Server's error reporting feature, SQL Server will be configured to automatically send fatal service error report to Microsoft or a Corporate Error Reporting server.
If a fatal error occurs, the server sends information about the error to Microsoft over a secure connection, where it is stored with limited access, or to a Corporate Error Reporting server.
To setup a Corporate Error Reporting server to control the information sent to Microsoft, see http://oca.microsoft.com/cerintro.asp. Microsoft uses the reports only to improve SQL Server, and treats all information as confidential.
For more information on the error reporting feature and the type of information sent, click Help.
Automatically send fatal error reports to Microsoft
Help
OK

Figure 3-2-16 Error reporting

This will complete the setup required to allow the Service Pack to be installed. Click on "Next" to begin the installation process.

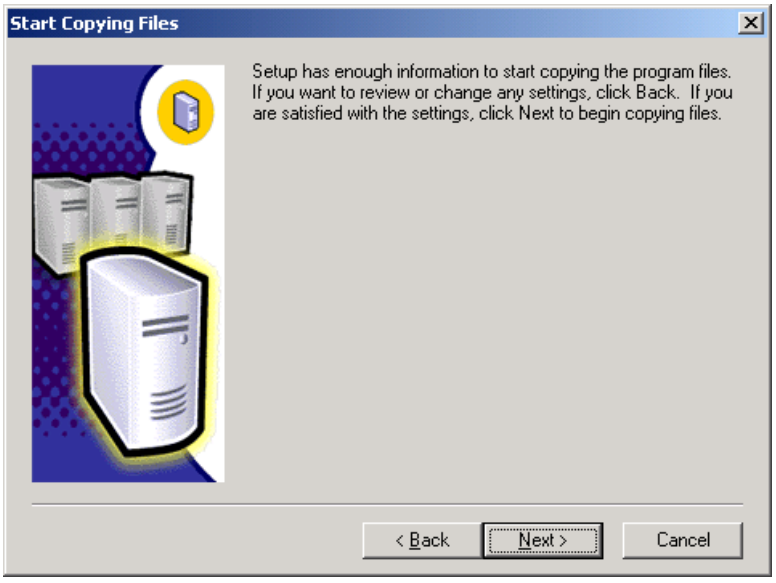
Start Copying Files
Setup has enough information to start copying the program files. If you want to review or change any settings, click Back. If you are satisfied with the settings, click Next to begin copying files.
< Back
Next >
Cancel

Figure 3-2-17 Start the installation

The setup software may ask you to perform a backup of your database. This is not required for new installations and may be ignored. Click on "OK" to continue.

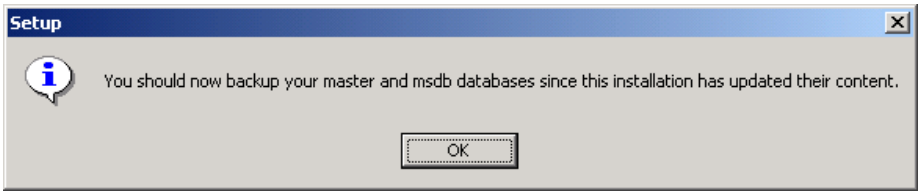

Figure 3-2-18 Backup notification

Once the installation process is finished, you may be prompted to reboot the computer to complete the process. Remove the CD from the drive and click on Finish to complete the setup process.

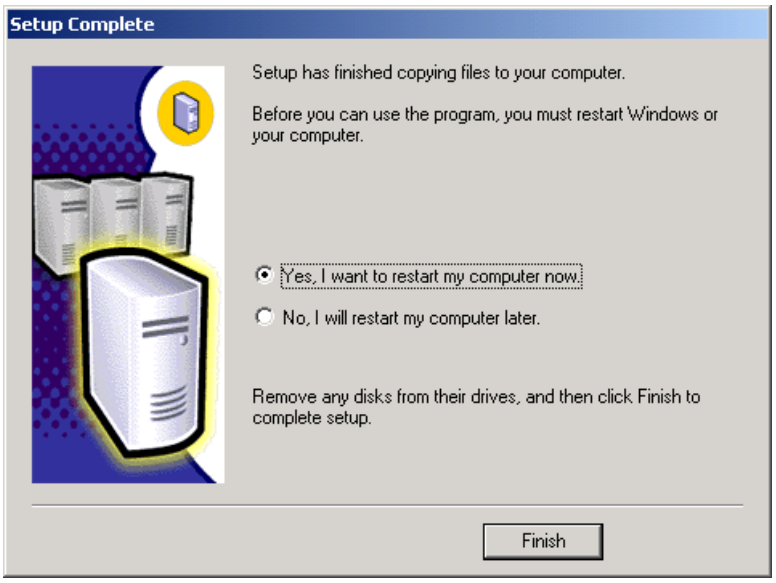
Setup Complete
Setup has finished copying files to your computer.
Before you can use the program, you must restart Windows or your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
Finish

Figure 3-2-19 Reboot the computer

3.2.2 STARTING THE SQL SERVER

In order for the DigiTrace Supervisor software to install and run, you must start the SQL Server database service. This can be accomplished by simply rebooting the computer or you may start the Server manually as follows:

Go to START → SETTINGS→ CONTROL PANEL→ ADMINISTRATIVE TOOLS→ COMPONENT SERVICES→ SERVICES (LOCAL).

Perform a right click on the MSSQLSERVER entry and click on "start."

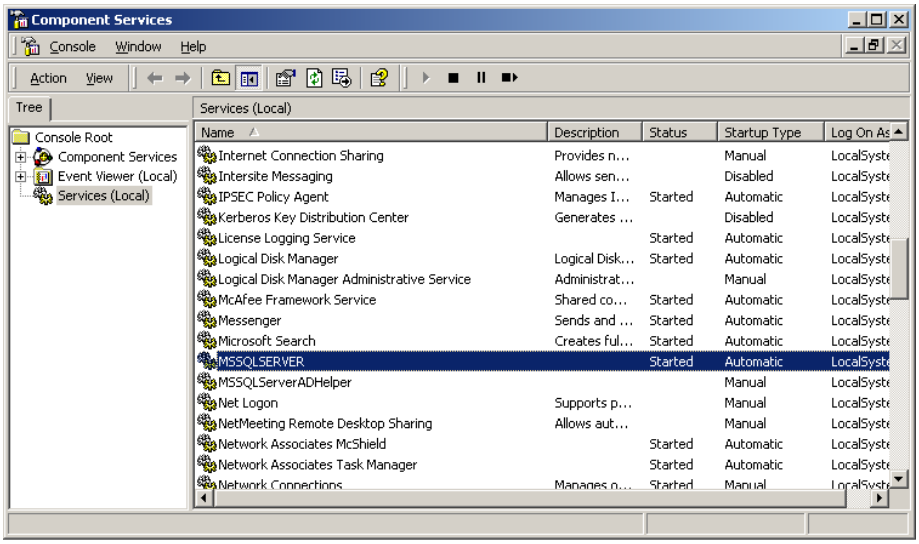

Figure 3-2-20 Manually starting the SQL server service

3.2.3 CONFIGURATION OF A WINDOWS ACCOUNT FOR USE WITH SQL SERVER

Now that you have successfully installed and started SQL Server, you must create an account that will allow the DigiTrace Supervisor Master Server to access the service.

To accomplish this, go to START → SETTINGS→ CONTROL PANEL→ ADMINISTRATIVE TOOLS→ COMPUTER MANAGEMENT→ LOCAL USERS & GROUPS→ USERS.

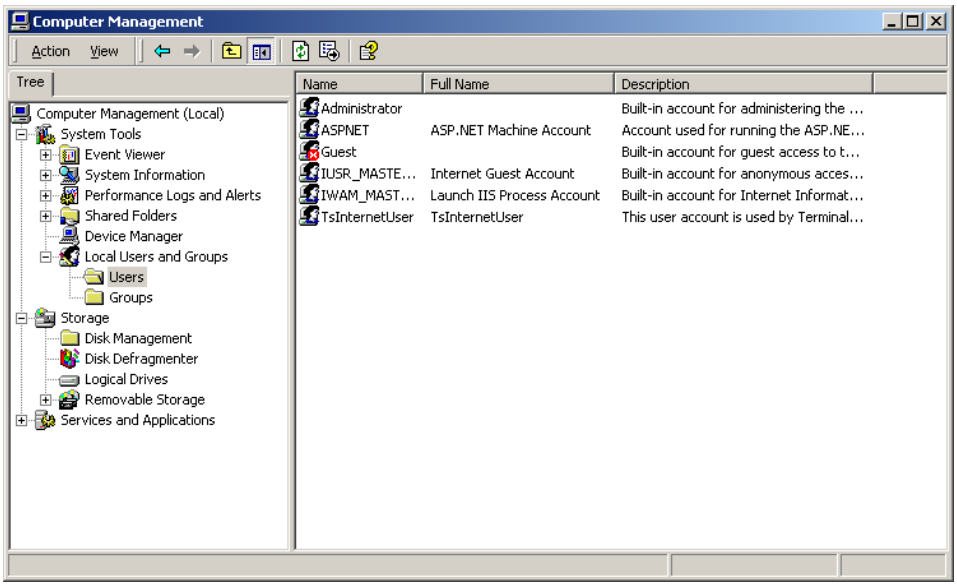

Figure 3-2-21 Creating a new local user

Right click in the Name area (right-hand side) of the window and click on New User. You may choose any name that you wish for the account, but a name that is representative of the account's use is recommended. For example, "DigiTrace Master" could be used. Complete each field making specific note of the User name and Password, as these parameters will be required when setting up the Master Server Software. Click "Create" to complete the operation.

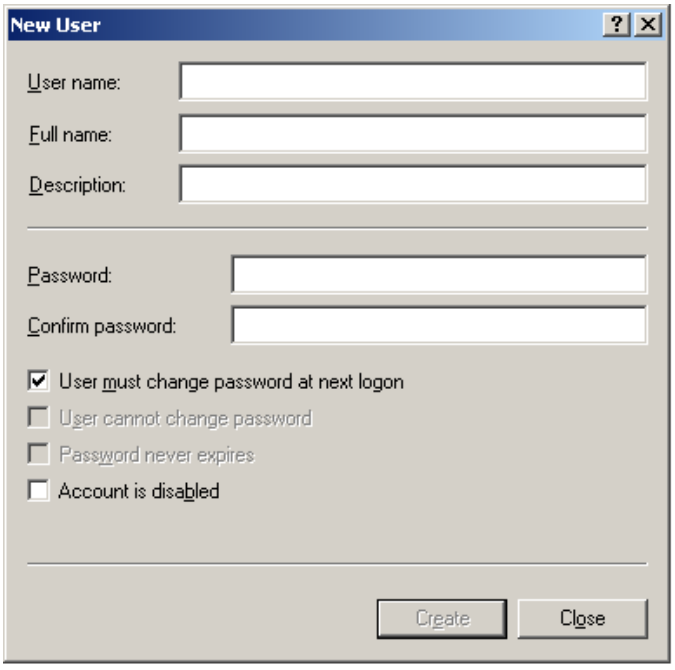

Figure 3-2-22 New user setup

Once the user has been created, it will appear in the user list. Right click on the new user name and go to Properties. Once in the Properties window, choose the General tab and ensure that User cannot change password and Password never expires are both selected.

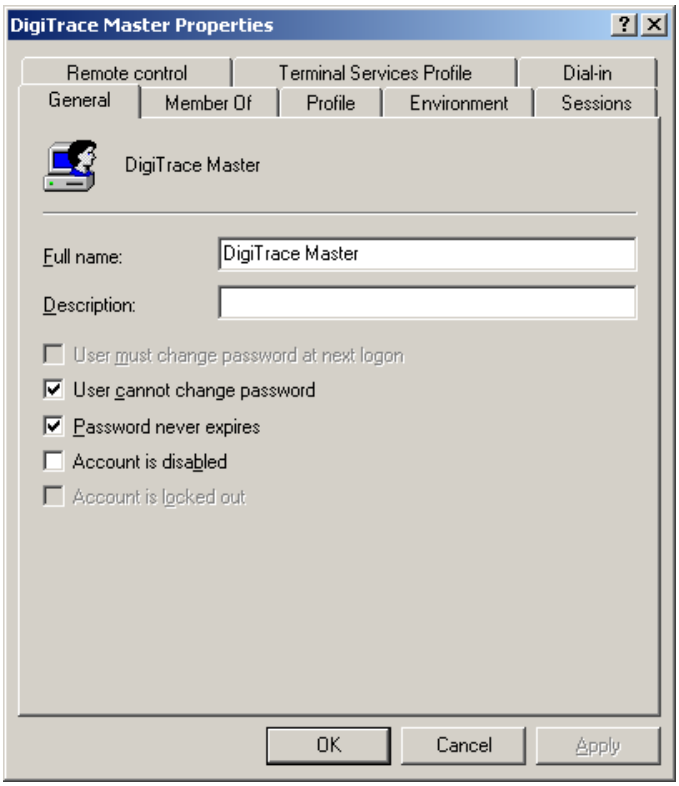

Figure 3-2-23 New user properties

Next, choose the Member Of tab and click on the Add button.

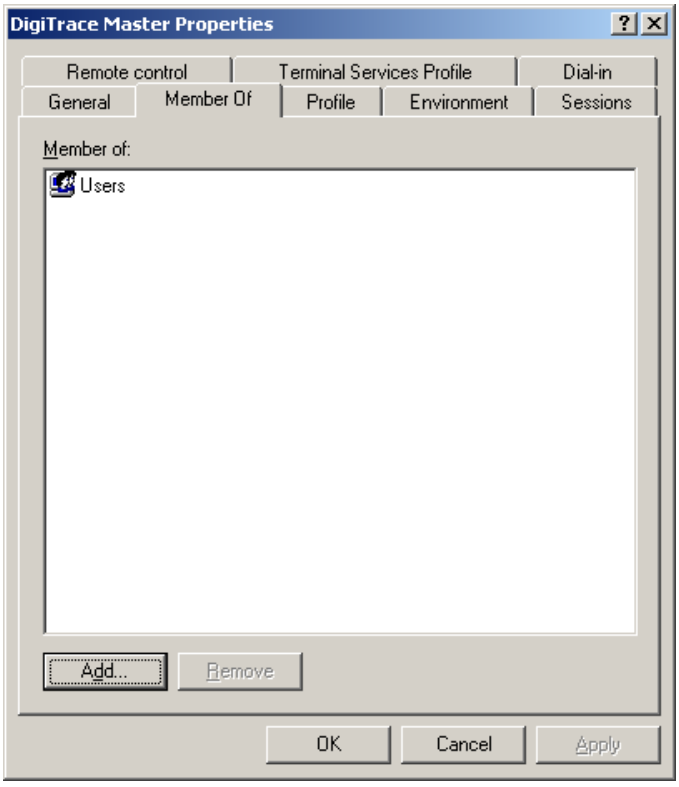

Figure 3-2-24 New user group assignment

In the list of groups, choose Administrators and then click on “Add”. This step will ensure that the DigiTrace Master Server user will have the access it needs to interact with the SQL Server service.

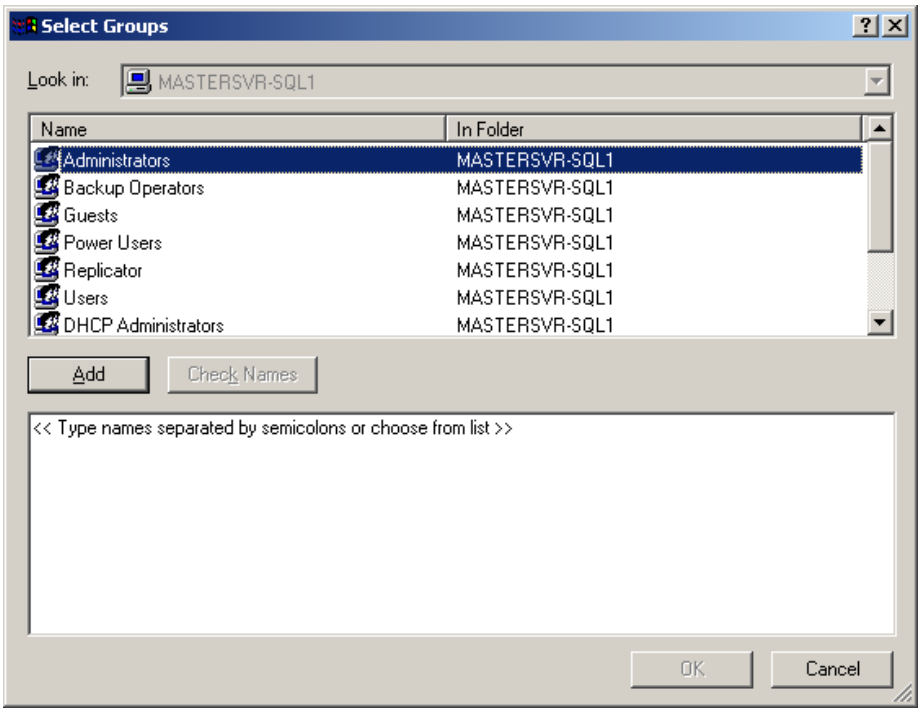

Figure 3-2-25 Set the new user as an administrator

Once the Administrators group has been added, the new user should be a member of both the Administrators and Users groups.

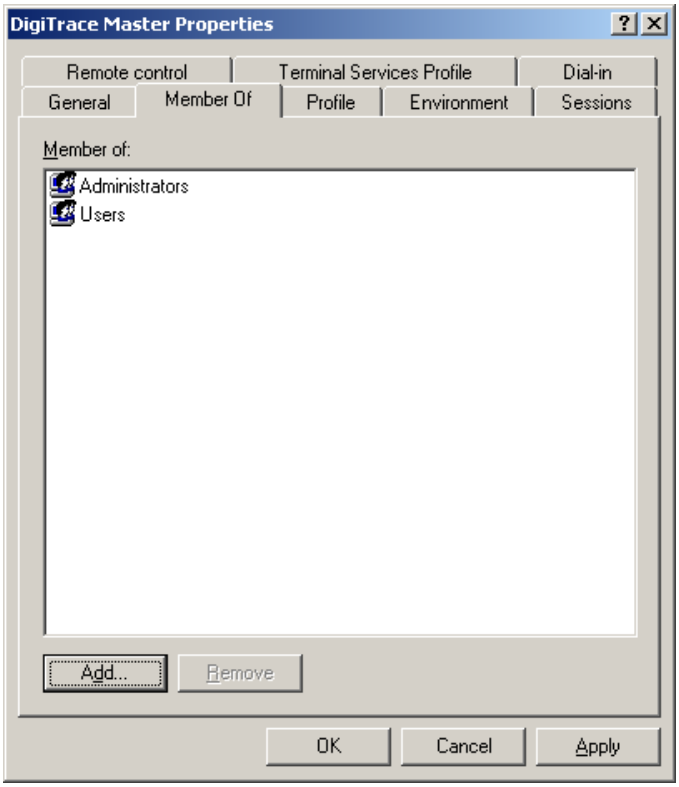

Figure 3-2-26 User Membership List

Click on “Apply” and then “OK.” The new user name should be added to the list.

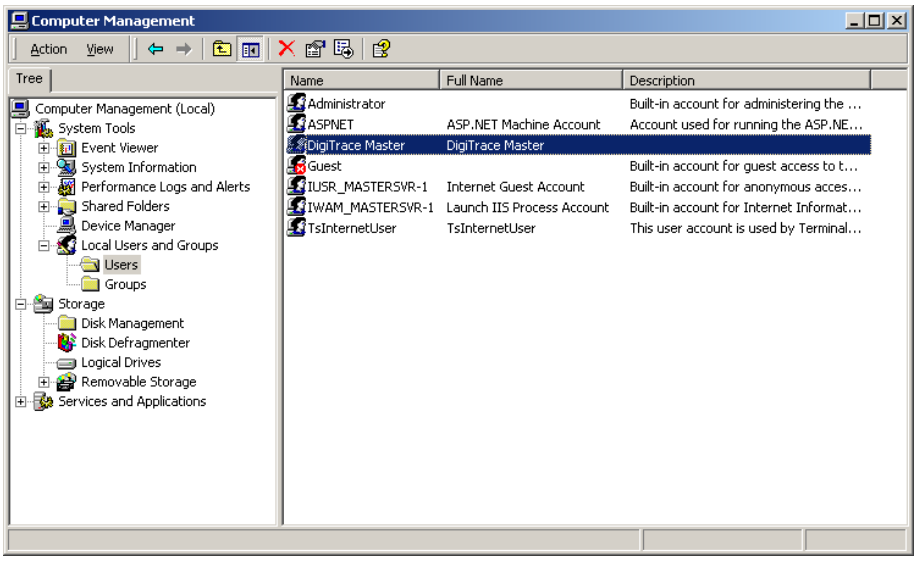

Figure 3-2-27 Addition of the new user

3.2.4 WINDOWS SERVER LICENSING

The computer on which SQL Server is installed must use Microsoft Windows® 2003 Server or Windows® 2000 Server as the operating system. **The user is responsible for ensuring that the proper licensing following the latest requirements is obtained from Microsoft for legal use of Windows® Server and User or Device connections.**

A number of options for Windows Server Client Access Licenses (CALs) are available from Microsoft. For a detailed description of the various options, see the Microsoft Website at www.microsoft.com/resources/sam/lic_cal.mspx .

Typical DigiTrace Supervisor systems will use a mix of Device and User CALs. You will need to purchase a separate Windows Server Device CAL for each Master and Slave Server and a separate Windows Server User CAL for each user in your DigiTrace system.

3.3 Uninstalling Microsoft SQL Server 2000

You may remove Microsoft SQL Server 2000 from your computer system by following these steps:

1. Click the START button, then Select Control Panel.
2. Double-Click Add/Remove Programs.
3. In the list of installed programs, select Microsoft SQL Server. Click on the Remove button.
4. Follow the instructions that appear on the screen.

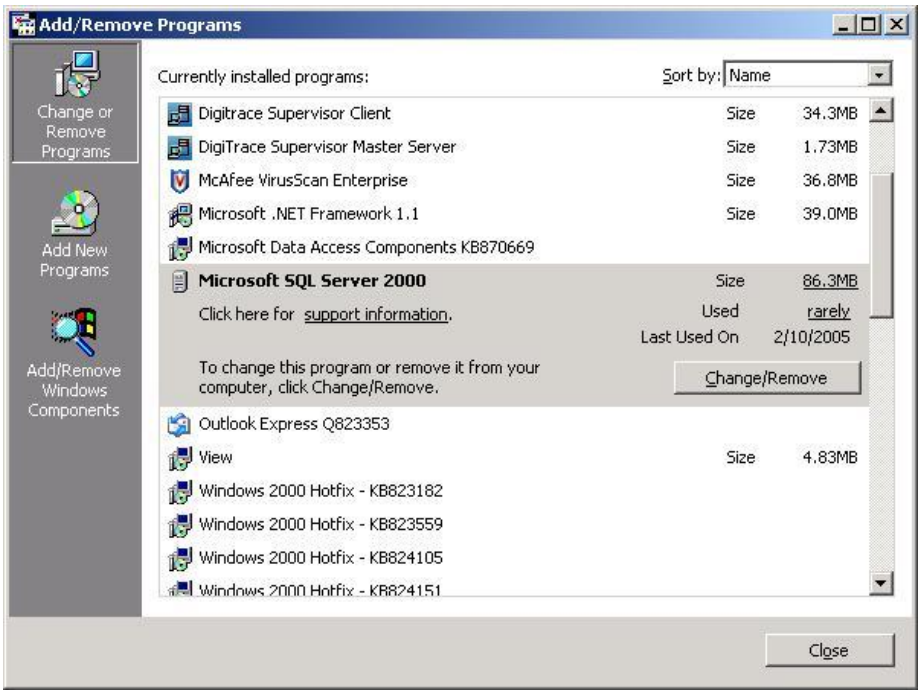
Add/Remove Programs
Change or Remove Programs
Add New Programs
Add/Remove Windows Components
Currently installed programs:
Sort by: Name
Digitrace Supervisor Client Size 34.3MB
DigiTrace Supervisor Master Server Size 1.73MB
McAfee VirusScan Enterprise Size 36.8MB
Microsoft .NET Framework 1.1 Size 39.0MB
Microsoft Data Access Components KB870669
Microsoft SQL Server 2000 Size 86.3MB
Click here for support information. Used rarely
Last Used On 2/10/2005
To change this program or remove it from your computer, click Change/Remove.
Change/Remove
Outlook Express Q823353
View Size 4.83MB
Windows 2000 Hotfix - KB823182
Windows 2000 Hotfix - KB823559
Windows 2000 Hotfix - KB824105
Windows 2000 Hotfix - KB824151
Close

Figure 3-3-1 Remove Microsoft SQL Server

3.4 Installing Microsoft SQL Server 2005

To install Microsoft SQL Server 2005, insert the "Microsoft SQL Server 2005 Standard Edition – Disc 1" CD in your computer's CD-Rom drive. If the installation application does not start automatically, navigate to the CD-Rom drive (D:\ for example) and then double click on Autorun.exe.

IMPORTANT: This section applies to DigiTrace Supervisor Enterprise, versions 2.2 and later. If you are installing version 2.1 and earlier, you should refer to Section 3.2 of this guide.

IMPORTANT: If you are upgrading from a standard (SQL EXPRESS) version of DigiTrace Supervisor, be sure to follow the procedure in the SQL EXPRESS Installation manual to uninstall SQL EXPRESS first. Ensure that you have completed all of the steps or SQL Server may not install properly.

3.4.1 INSTALLING THE DATABASE SERVER COMPONENTS

Once the install screen appears, click on "Install Server components, tools, Books Online, and samples". The Microsoft SQL Server 2005 End User License Agreement will appear. You must accept the licensing terms and conditions before you can move on with rest of the installation.

SQL Server 2005 (Disc 1 of 2)
Start
Prepare
Review hardware and software requirements
Read the release notes
Install SQL Server Upgrade Advisor
Install
Server components, tools, Books Online, and samples
Run the SQL Native Client Installation Wizard
Other Information
Browse this CD
Visit the SQL Server website
Read the SQL Server license agreement
Exit
Microsoft SQL Server 2005 Standard Edition

Figure 3-4-1 Install SQL Server 2005 Startup menu

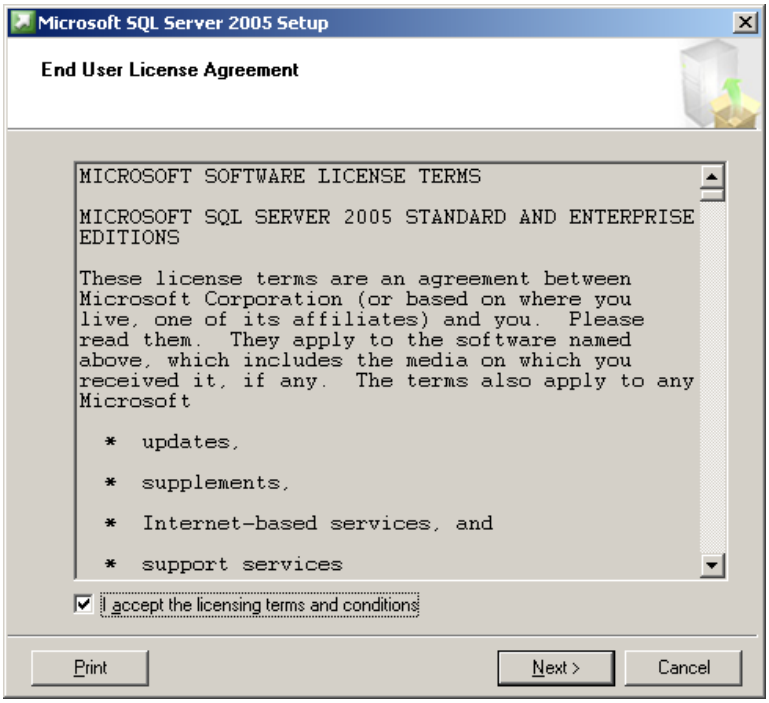
Microsoft SQL Server 2005 Setup
End User License Agreement
MICROSOFT SOFTWARE LICENSE TERMS
MICROSOFT SQL SERVER 2005 STANDARD AND ENTERPRISE EDITIONS
These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft
* updates,
* supplements,
* Internet-based services, and
* support services
I accept the licensing terms and conditions
Print
Next >
Cancel

Figure 3-4-2 Microsoft SQL Server 2005 End User License Agreement

Once the "Installing Prerequisites" screen appears, click on "Install" to start the Installation.

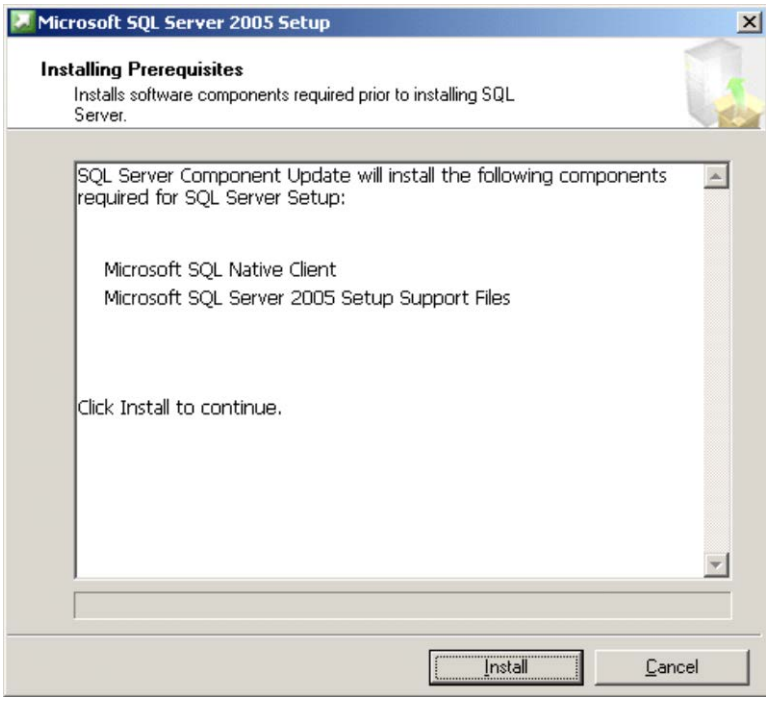
Microsoft SQL Server 2005 Setup
Installing Prerequisites
Installs software components required prior to installing SQL Server.
SQL Server Component Update will install the following components required for SQL Server Setup:
Microsoft SQL Native Client
Microsoft SQL Server 2005 Setup Support Files
Click Install to continue.
Install
Cancel

Figure 3-4-3 Microsoft SQL Server 2005 Installing Prerequisites

For the next couple of screens, follow the on screen instructions. When the "Components to Install" screen appears, select the SQL Server database Services and Workstation components, Books Online and development tools, then click on "Next".

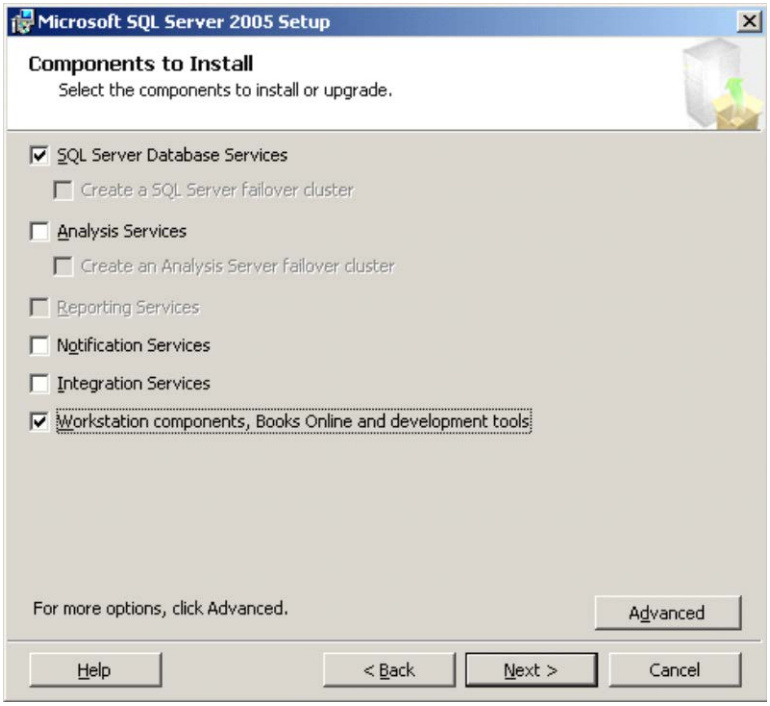

Figure 3-4-4 Components to Install

When the "Instance Name" screen appears, select Default Instance then click on "Next".

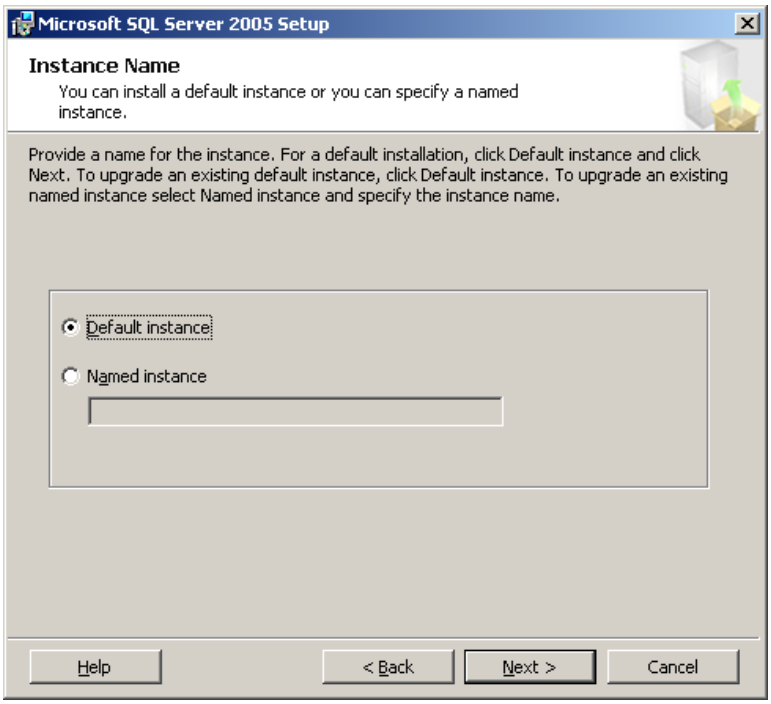
Microsoft SQL Server 2005 Setup
Instance Name
You can install a default instance or you can specify a named instance.
Provide a name for the instance. For a default installation, click Default instance and click Next. To upgrade an existing default instance, click Default instance. To upgrade an existing named instance select Named instance and specify the instance name.
Default instance
Named instance
Help
< Back
Next >
Cancel

Figure 3-4-5 Instance name

Choose Local System for the "Use the build-in System account", and for "Start services at the end of setup" select SQL Server. Click on "Next."

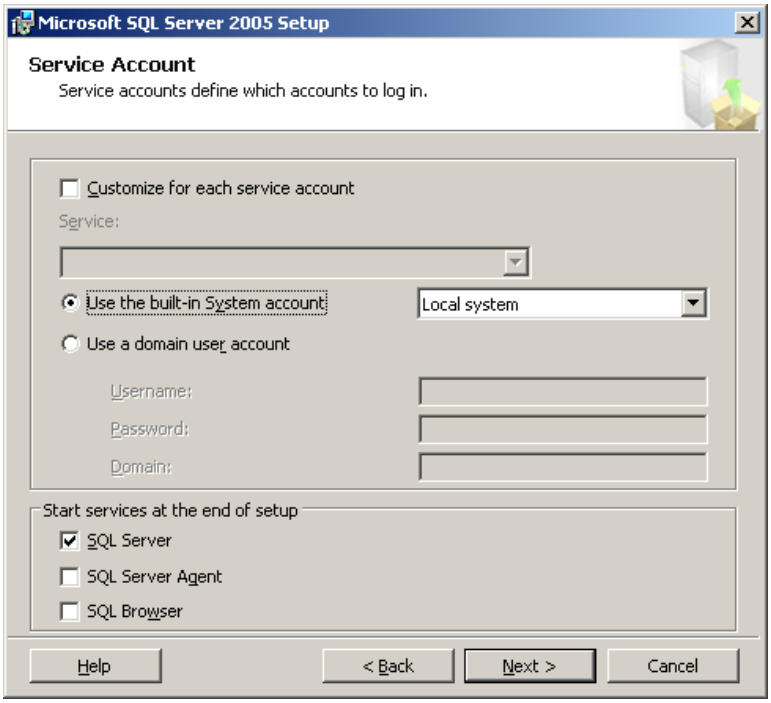

Figure 3-4-6 Service Account

When the "Authentication Mode" screen appears select Windows Authentication Mode then click on "Next".

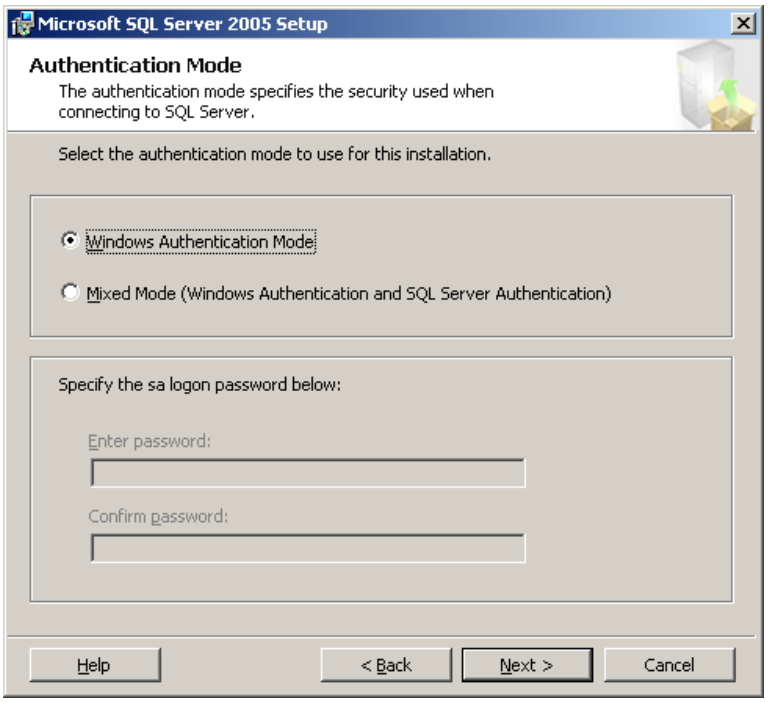
Microsoft SQL Server 2005 Setup
Authentication Mode
The authentication mode specifies the security used when connecting to SQL Server.
Select the authentication mode to use for this installation.
Windows Authentication Mode
Mixed Mode (Windows Authentication and SQL Server Authentication)
Specify the sa logon password below:
Enter password:
Confirm password:
Help
< Back
Next >
Cancel

Figure 3-4-7 Authentication Mode

In the "Collation Settings" screen, select SQL collations (used for compatibility with previous versions of SQL Server) option. Click on "Next."

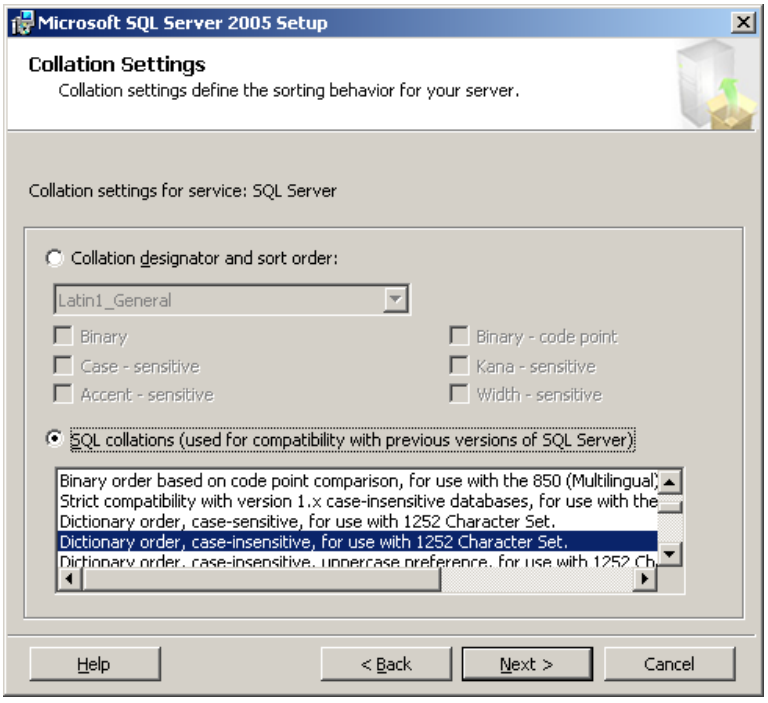
Microsoft SQL Server 2005 Setup
Collation Settings
Collation settings define the sorting behavior for your server.
Collation settings for service: SQL Server
Collation designator and sort order:
Latin1_General
Binary
Case - sensitive
Accent - sensitive
Binary - code point
Kana - sensitive
Width - sensitive
SQL collations (used for compatibility with previous versions of SQL Server)
Binary order based on code point comparison, for use with the 850 (Multilingual)
Strict compatibility with version 1.x case-insensitive databases, for use with the
Dictionary order, case-sensitive, for use with 1252 Character Set.
Dictionary order, case-insensitive, for use with 1252 Character Set.
Help
< Back
Next >
Cancel

Figure 3-4-8 Collation Settings

Choose the Error and Usage report settings if required then click on "Next."

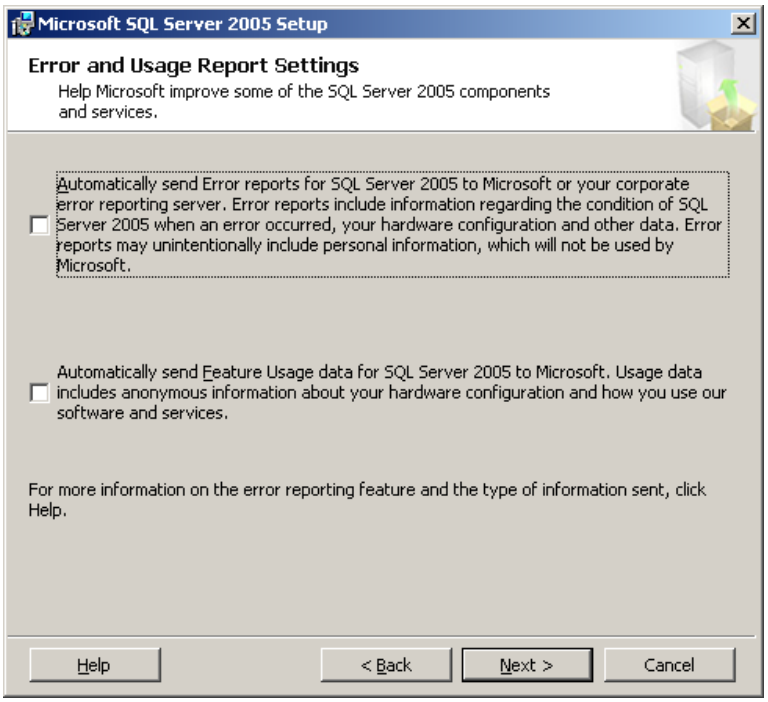
Microsoft SQL Server 2005 Setup
Error and Usage Report Settings
Help Microsoft improve some of the SQL Server 2005 components and services.
Automatically send Error reports for SQL Server 2005 to Microsoft or your corporate error reporting server. Error reports include information regarding the condition of SQL Server 2005 when an error occurred, your hardware configuration and other data. Error reports may unintentionally include personal information, which will not be used by Microsoft.
Automatically send Feature Usage data for SQL Server 2005 to Microsoft. Usage data includes anonymous information about your hardware configuration and how you use our software and services.
For more information on the error reporting feature and the type of information sent, click Help.
Help
< Back
Next >
Cancel

Figure 3-4-9 Error and Usage Report Settings

Finally the "Ready to Install" screen should appear, click on "Install" to start the installation.

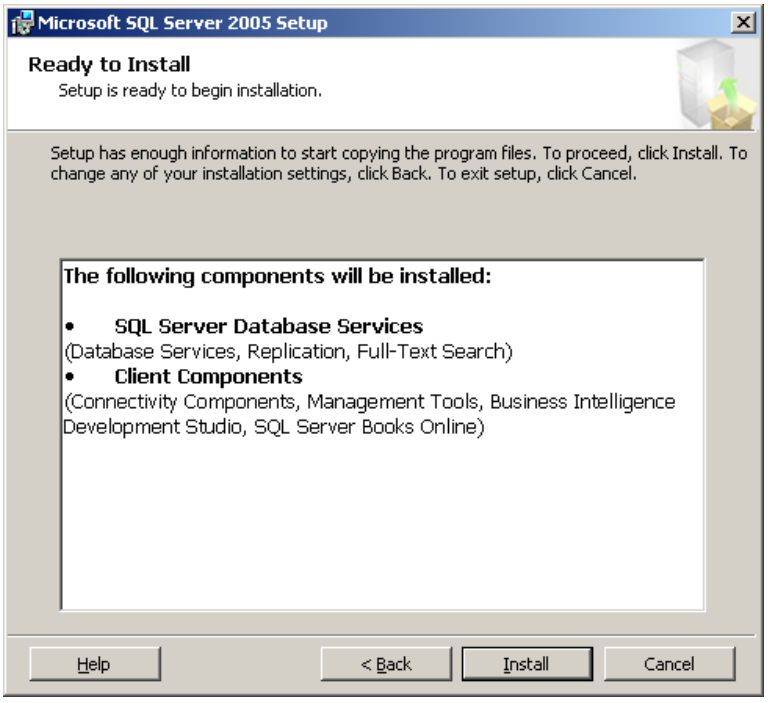
Microsoft SQL Server 2005 Setup
Ready to Install
Setup is ready to begin installation.
Setup has enough information to start copying the program files. To proceed, click Install. To change any of your installation settings, click Back. To exit setup, click Cancel.
The following components will be installed:
SQL Server Database Services
(Database Services, Replication, Full-Text Search)
Client Components
(Connectivity Components, Management Tools, Business Intelligence Development Studio, SQL Server Books Online)
Help
< Back
Install
Cancel

Figure 3-4-10 Ready to Install

Once the installation has started the "Setup Progress" screen appears. The installation will take some time to complete and you will be prompted to insert Disc 2 during the installation process.

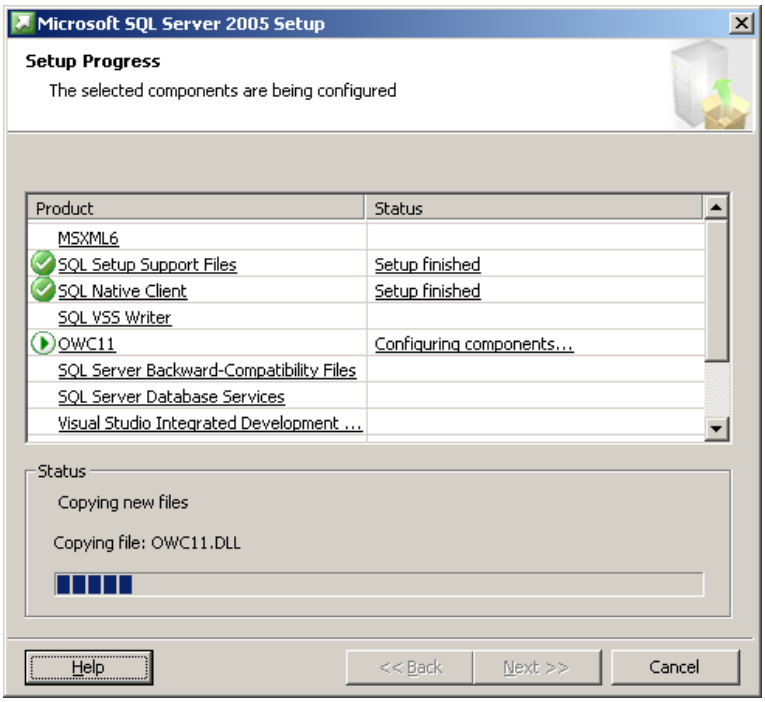

Figure 3-4-11 Setup Progress

Once the installation has completed, the "Completing Microsoft SQL Server 2005 Setup" appears. Click on "Finish" to complete the installation.

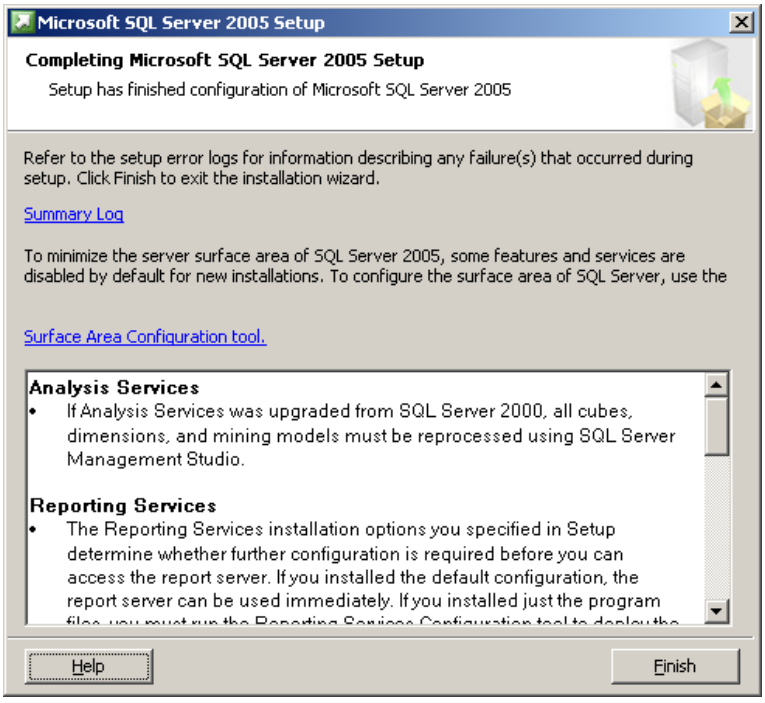
Microsoft SQL Server 2005 Setup
Completing Microsoft SQL Server 2005 Setup
Setup has finished configuration of Microsoft SQL Server 2005
Refer to the setup error logs for information describing any failure(s) that occurred during setup. Click Finish to exit the installation wizard.
Summary Log
To minimize the server surface area of SQL Server 2005, some features and services are disabled by default for new installations. To configure the surface area of SQL Server, use the
Surface Area Configuration tool.
Analysis Services
If Analysis Services was upgraded from SQL Server 2000, all cubes, dimensions, and mining models must be reprocessed using SQL Server Management Studio.
Reporting Services
The Reporting Services installation options you specified in Setup determine whether further configuration is required before you can access the report server. If you installed the default configuration, the report server can be used immediately. If you installed just the program
Help
Finish

Figure 3-4-12 Complete Microsoft SQL Server 2005 Setup

3.4.2 STARTING THE SQL SERVER

The SQL Server Service should already be started by the installation. If there is a need to manually start the SQL Server Service, this can be accomplished by simply rebooting the computer or you may start the Server manually as follows:

Go to START → SETTINGS→ CONTROL PANEL→ ADMINISTRATIVE TOOLS→ COMPONENT SERVICES→ SERVICES (LOCAL).

Perform a right click on the SQL Server (MSSQLSERVER) entry and click on "start."

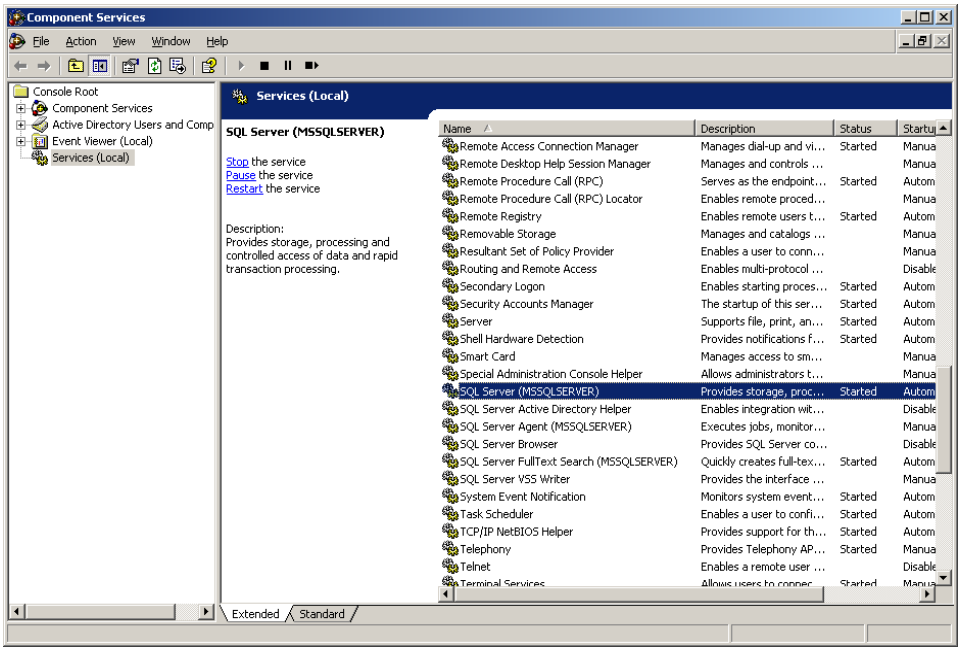

Figure 3-4-13 Manually starting the SQL server service

3.4.3 CONFIGURATION OF A WINDOWS ACCOUNT FOR USE WITH SQL SERVER

Now that you have successfully installed and started SQL Server, you must create an account that will allow the DigiTrace Supervisor Master Server to access the service.

To accomplish this, go to START → SETTINGS→ CONTROL PANEL→ ADMINISTRATIVE TOOLS→ COMPUTER MANAGEMENT→ LOCAL USERS & GROUPS→ USERS.

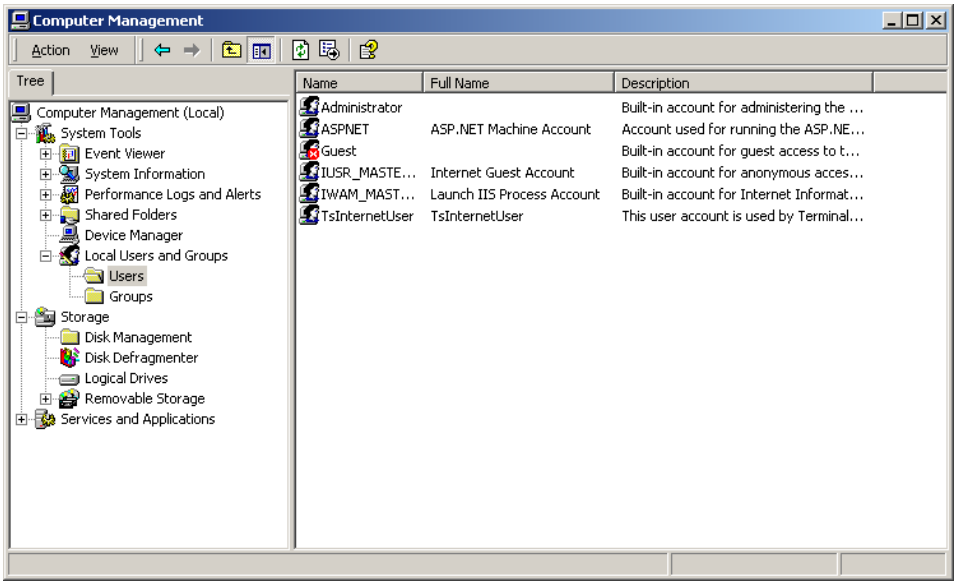

Figure 3-4-14 Creating a new local user

Right click in the Name area (right-hand side) of the window and click on New User. You may choose any name that you wish for the account, but a name that is representative of the account's use is recommended. For example, "DigiTrace Master" could be used.

Complete each field making specific note of the User name and Password, as these parameters will be required when setting up the Master Server Software. Click “Create” to complete the operation.

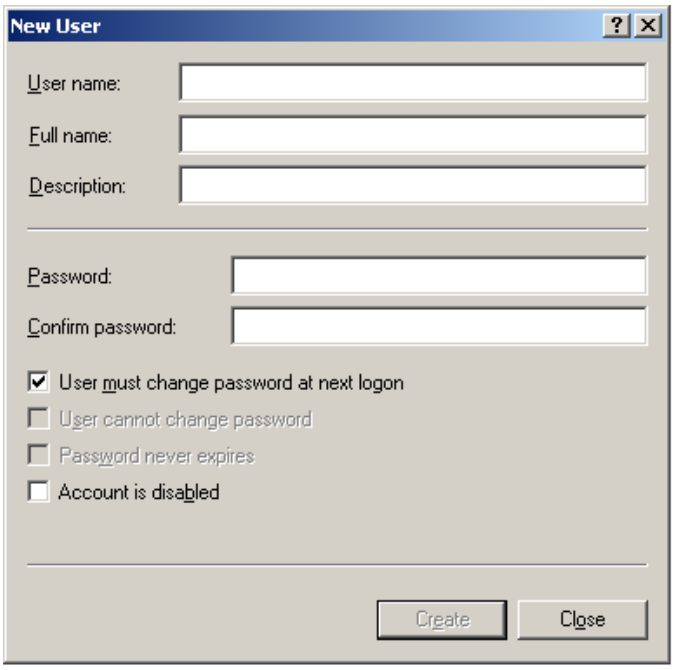

Figure 3-4-15 New user setup

Once the user has been created, it will appear in the user list. Right click on the new user name and go to Properties. Once in the Properties window, choose the General tab and ensure that User cannot change password and Password never expires are both selected.

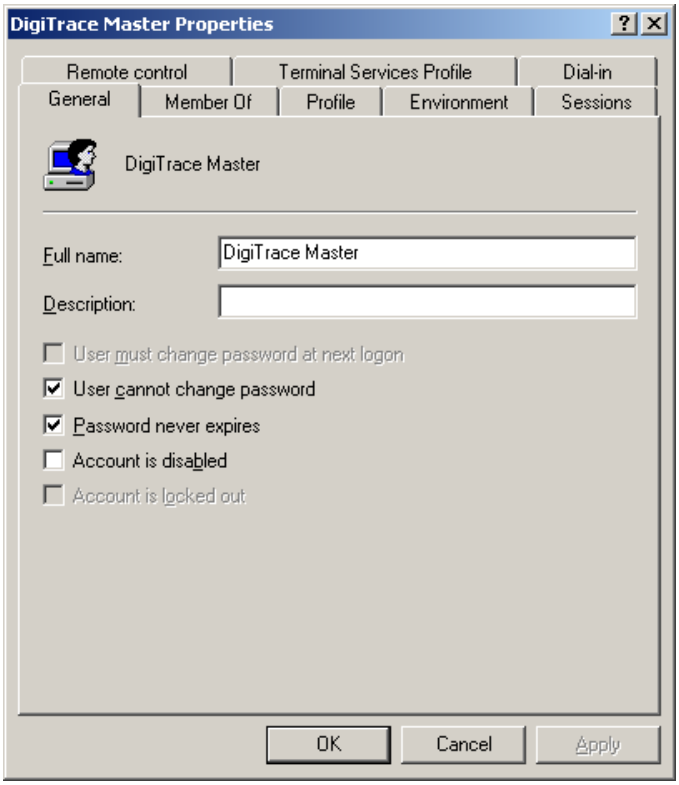

Figure 3-4-16 New user properties

Next, choose the Member Of tab and click on the Add button.

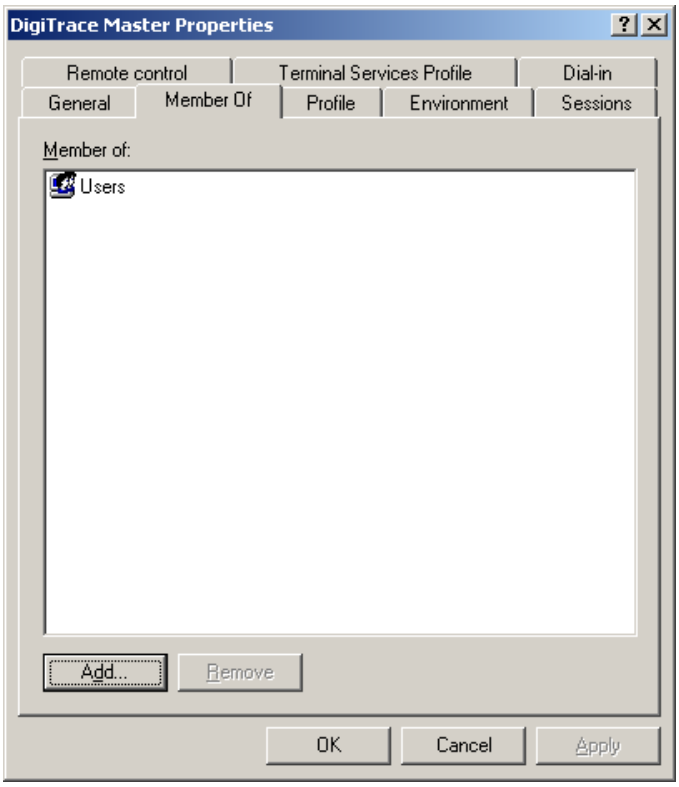

Figure 3-4-17 New user group assignment

In the list of groups, choose Administrators and then click on "Add". This step will ensure that the DigiTrace Master Server user will have the access it needs to interact with the SQL Server service.

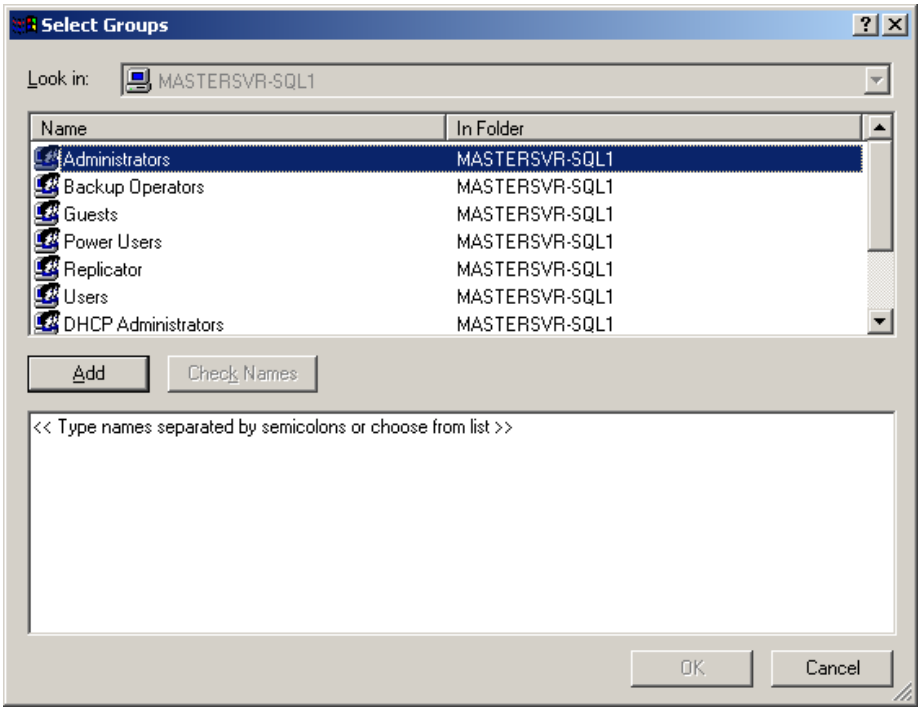

Figure 3-4-18 Set the new user as an administrator

Once the Administrators group has been added, the new user should be a member of both the Administrators and Users groups.

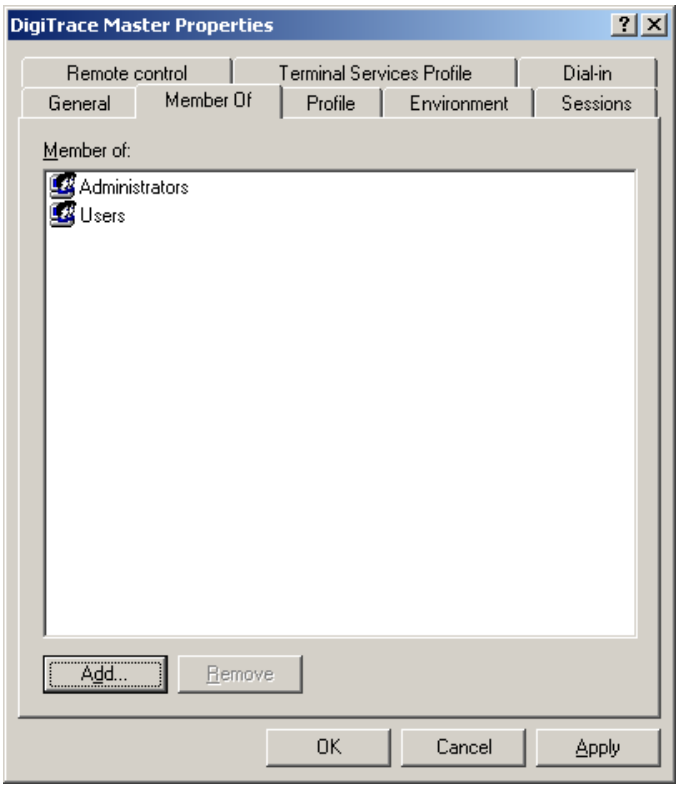

Figure 3-4-19 User Membership List

Click on "Apply" and then "OK." The new user name should be added to the list.

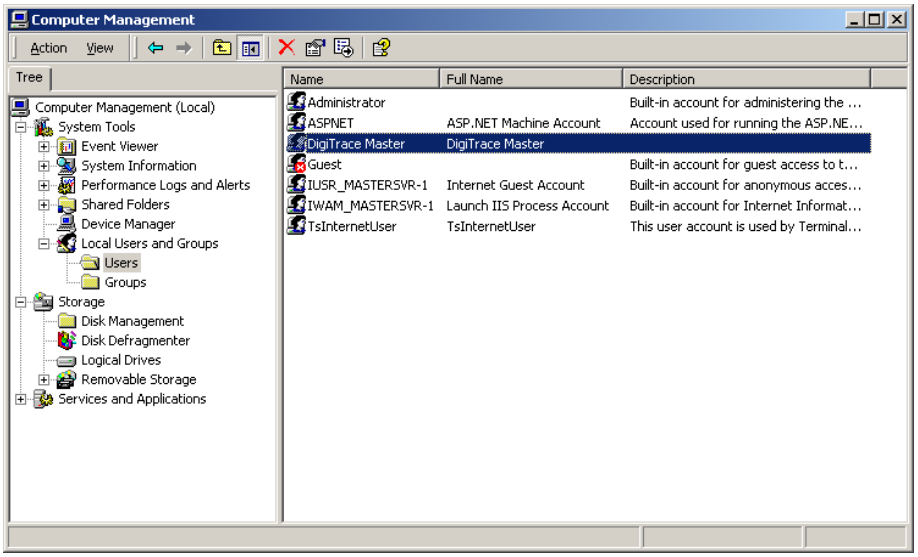

Figure 3-4-20 Addition of the new user

3.4.4 WINDOWS SERVER LICENSING

The computer on which SQL Server is installed must use Microsoft Windows® 2003 Server or Windows® 2000 Server as the operating system. **The user is responsible for ensuring that the proper licensing following the latest requirements is obtained from Microsoft for legal use of Windows® Server and User or Device connections.**

A number of options for Windows Server Client Access Licenses (CALs) are available from Microsoft. For a detailed description of the various options, see the Microsoft Website at www.microsoft.com/resources/sam/lic_cal.mspx .

Typical DigiTrace Supervisor systems will use a mix of Device and User CALs. You will need to purchase a separate Windows Server Device CAL for each Master and Slave Server and a separate Windows Server User CAL for each user in your DigiTrace system.

3.5 Uninstalling Microsoft SQL Server 2005

You may remove Microsoft SQL Server 2005 from your computer system by following these steps:

1. Click the START button, then Select Control Panel.
2. Double-Click Add/Remove Programs.
3. In the list of installed programs, select Microsoft SQL Server 2005. Click on the Remove button.
4. Follow the instructions that appear on the screen.

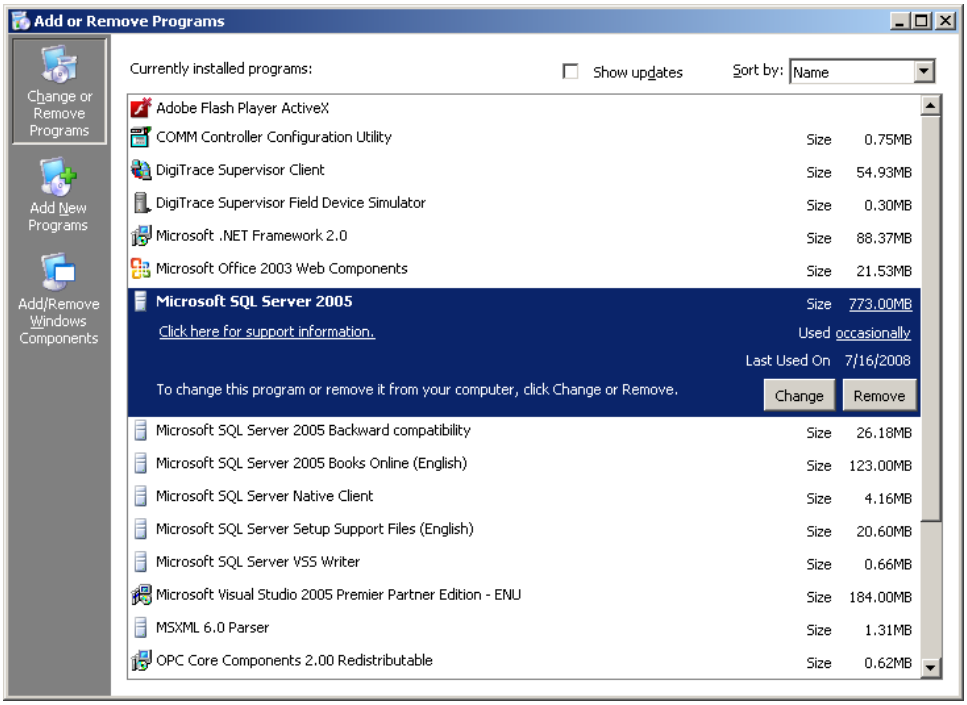
Add or Remove Programs
Change or Remove Programs
Add New Programs
Add/Remove Windows Components
Currently installed programs:
Show updates
Sort by: Name
Adobe Flash Player ActiveX
COMM Controller Configuration Utility Size 0.75MB
DigiTrace Supervisor Client Size 54.93MB
DigiTrace Supervisor Field Device Simulator Size 0.30MB
Microsoft .NET Framework 2.0 Size 88.37MB
Microsoft Office 2003 Web Components Size 21.53MB
Microsoft SQL Server 2005 Size 773.00MB
Click here for support information.
Used occasionally
Last Used On 7/16/2008
To change this program or remove it from your computer, click Change or Remove.
Change
Remove
Microsoft SQL Server 2005 Backward compatibility Size 26.18MB
Microsoft SQL Server 2005 Books Online (English) Size 123.00MB
Microsoft SQL Server Native Client Size 4.16MB
Microsoft SQL Server Setup Support Files (English) Size 20.60MB
Microsoft SQL Server VSS Writer Size 0.66MB
Microsoft Visual Studio 2005 Premier Partner Edition - ENU Size 184.00MB
MSXML 6.0 Parser Size 1.31MB
OPC Core Components 2.00 Redistributable Size 0.62MB

Figure 3-5-1 Remove Microsoft SQL Server 2005

3.6 Installing Microsoft SQL Server 2008

To install Microsoft SQL Server 2008, insert the "Microsoft SQL Server 2008 Standard Edition" CD in your computer's CD-Rom drive. If the installation application does not start automatically, navigate to the CD-Rom drive (D:\ for example) and then double click on Autorun.exe.

IMPORTANT: This section applies to DigiTrace Supervisor Enterprise, versions 2.2 and later. If you are installing version 2.1 and earlier, you should refer to Section 3.2 of this guide.

IMPORTANT: If you are upgrading from a standard (SQL EXPRESS) version of DigiTrace Supervisor, be sure to follow the procedure in the SQL EXPRESS Installation manual to

uninstall SQL EXPRESS first. Ensure that you have completed all of the steps or SQL Server may not install properly.

3.6.1 INSTALLING THE DATABASE SERVER COMPONENTS

Once the SQL Server installation Center screen appears, click on “Installation” menu item, and select “New SQL Server stand-alone installation or add features to an existing installation”. The Microsoft SQL Server 2008 License Terms will appear. You must accept the license terms before you can move on with rest of the installation.

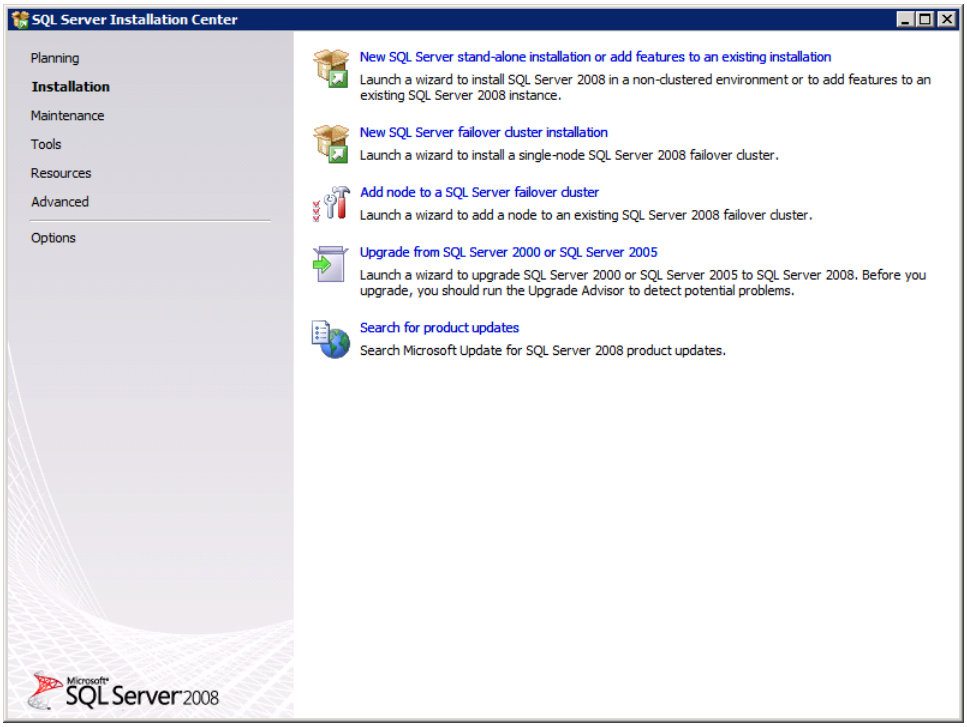
SQL Server Installation Center
Planning
Installation
Maintenance
Tools
Resources
Advanced
Options
New SQL Server stand-alone installation or add features to an existing installation
Launch a wizard to install SQL Server 2008 in a non-clustered environment or to add features to an existing SQL Server 2008 instance.
New SQL Server failover cluster installation
Launch a wizard to install a single-node SQL Server 2008 failover cluster.
Add node to a SQL Server failover cluster
Launch a wizard to add a node to an existing SQL Server 2008 failover cluster.
Upgrade from SQL Server 2000 or SQL Server 2005
Launch a wizard to upgrade SQL Server 2000 or SQL Server 2005 to SQL Server 2008. Before you upgrade, you should run the Upgrade Advisor to detect potential problems.
Search for product updates
Search Microsoft Update for SQL Server 2008 product updates.
Microsoft SQL Server 2008

Figure 3-6-1 SQL Server 2008 Installation Center

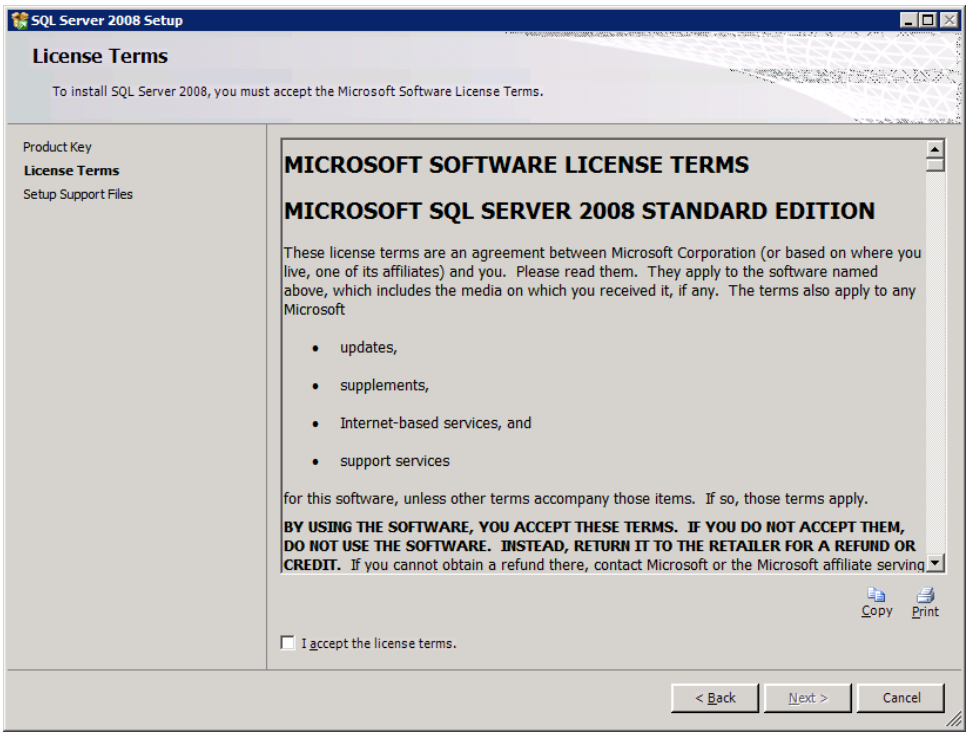
SQL Server 2008 Setup
License Terms
To install SQL Server 2008, you must accept the Microsoft Software License Terms.
Product Key
License Terms
Setup Support Files
MICROSOFT SOFTWARE LICENSE TERMS
MICROSOFT SQL SERVER 2008 STANDARD EDITION
These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft
updates,
supplements,
Internet-based services, and
support services
for this software, unless other terms accompany those items. If so, those terms apply.
BY USING THE SOFTWARE, YOU ACCEPT THESE TERMS. IF YOU DO NOT ACCEPT THEM, DO NOT USE THE SOFTWARE. INSTEAD, RETURN IT TO THE RETAILER FOR A REFUND OR CREDIT. If you cannot obtain a refund there, contact Microsoft or the Microsoft affiliate serving
Copy
Print
I accept the license terms.
< Back
Next >
Cancel

Figure 3-6-2 Microsoft Software License Terms for Microsoft SQL Server 2008 Standard Edition

Once the "Setup Support Files" screen appears, click on "Install" to start the Installation.

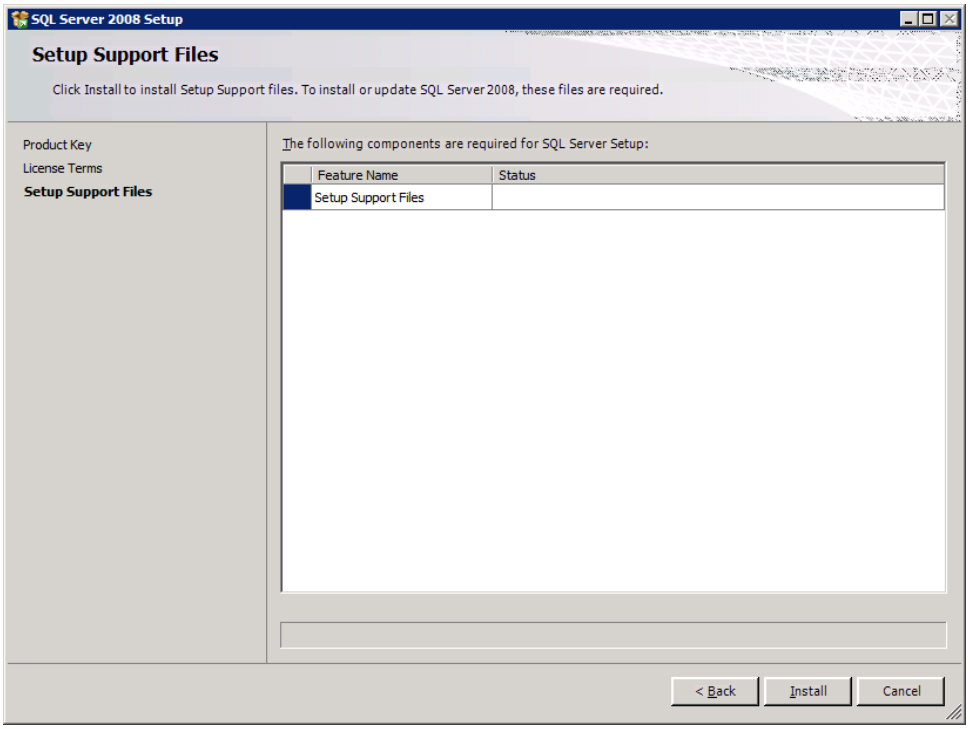

Figure 3-6-3 SQL Server 2008 Setup Support files

For the next couple of screens, follow the on screen instructions. When the "Feature Selection" screen appears, use the "Select All" for a full installation or manually select the feature that is needed. Click on "Next" to continue.

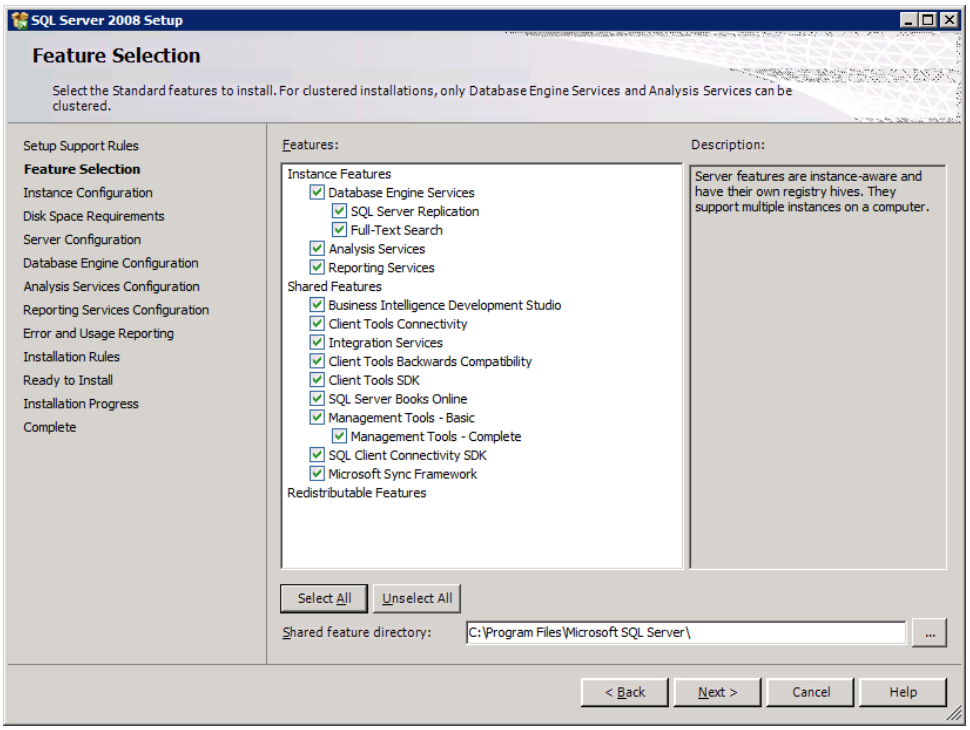

Figure 3-6-4 SQL Server 2008 Feature Selection screen

When the "Instance Configuration" screen appears, select Default Instance then click on "Next".

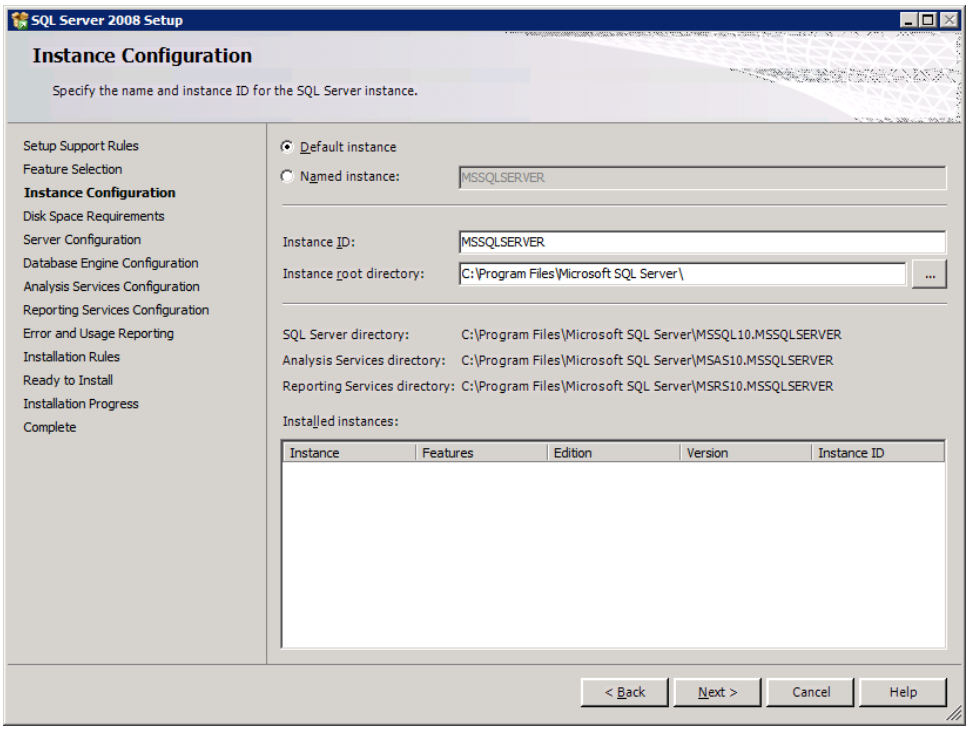

Figure 3-6-5 Instance Configuration screen

Continue until the Server Configuration screen is reached. In this screen, you must setup an account name for reach Service displayed. Click on the "Collation" tab and check the Collation settings, edit them if required.

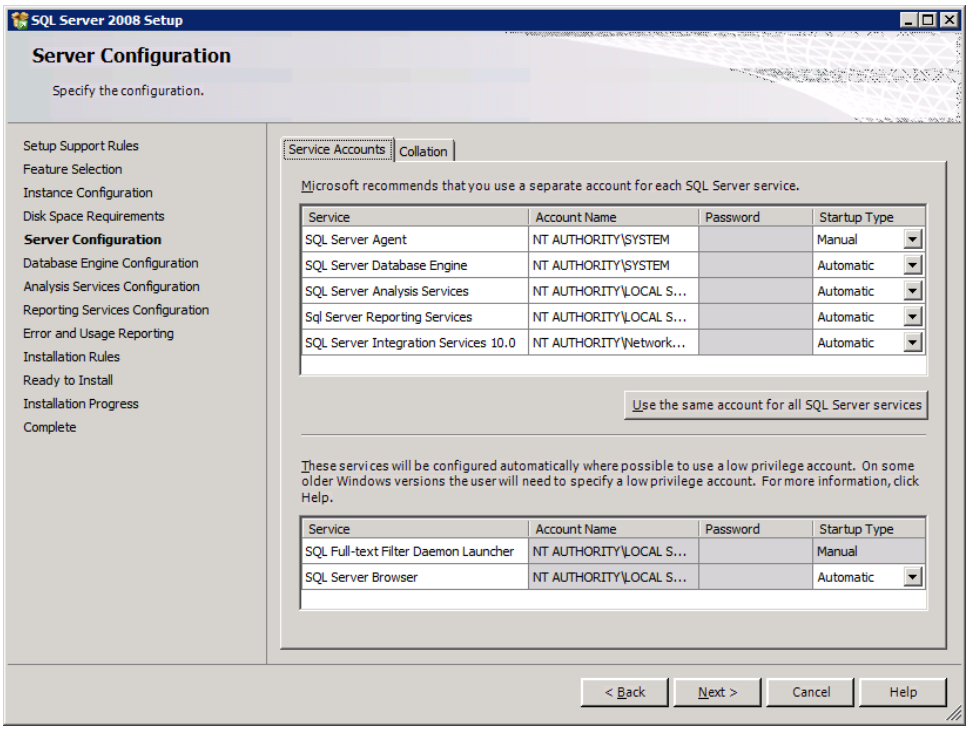

Figure 3-6-6 Server Configuration screen

When the "Database Engine Configuration" screen appears select Windows Authentication Mode. You must also have to specify a SQL Server administrator on this screen. This should be someone with admin privileges. Click on "Next" to continue.

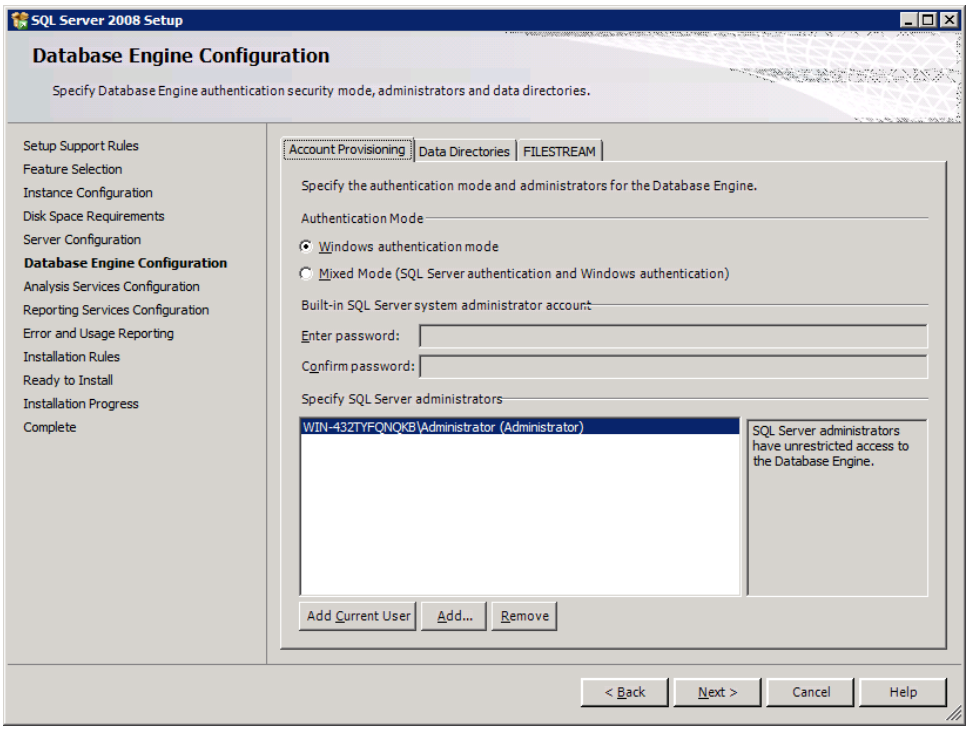

Figure 3-6-7 Database Engine Configuration screen

In the "Analysis Services Configuration" screen, specify a user that has permission to perform analysis services. Click on "Next."

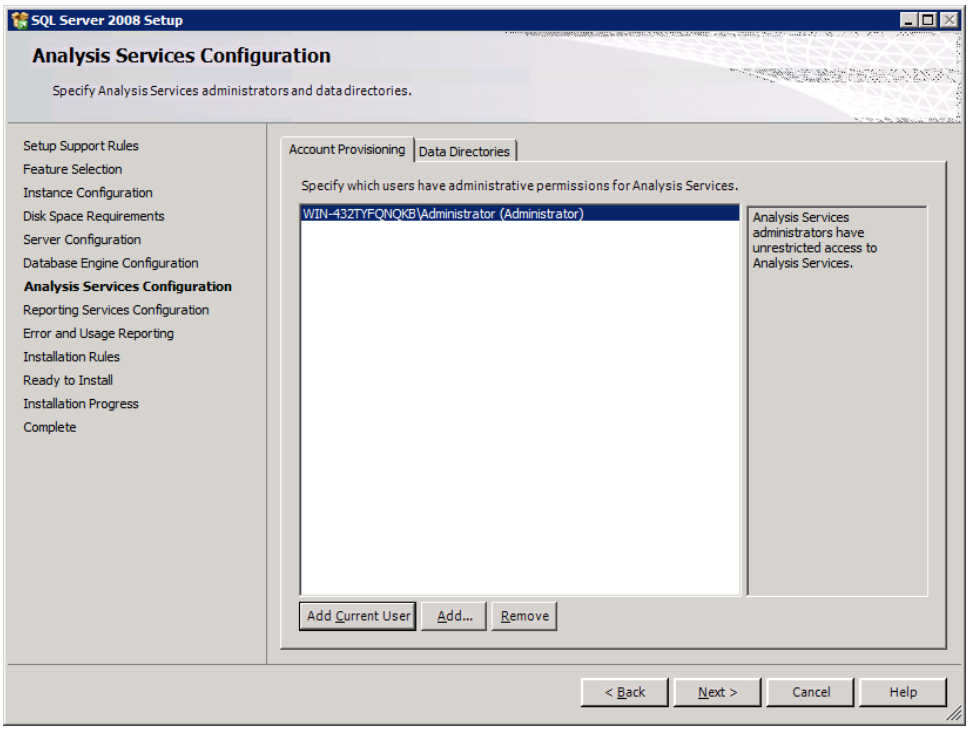

Figure 3-6-8 Analysis Services Configuration screen

On the "Reporting Services Configuration" screen, select a reporting service option, click on "Next."

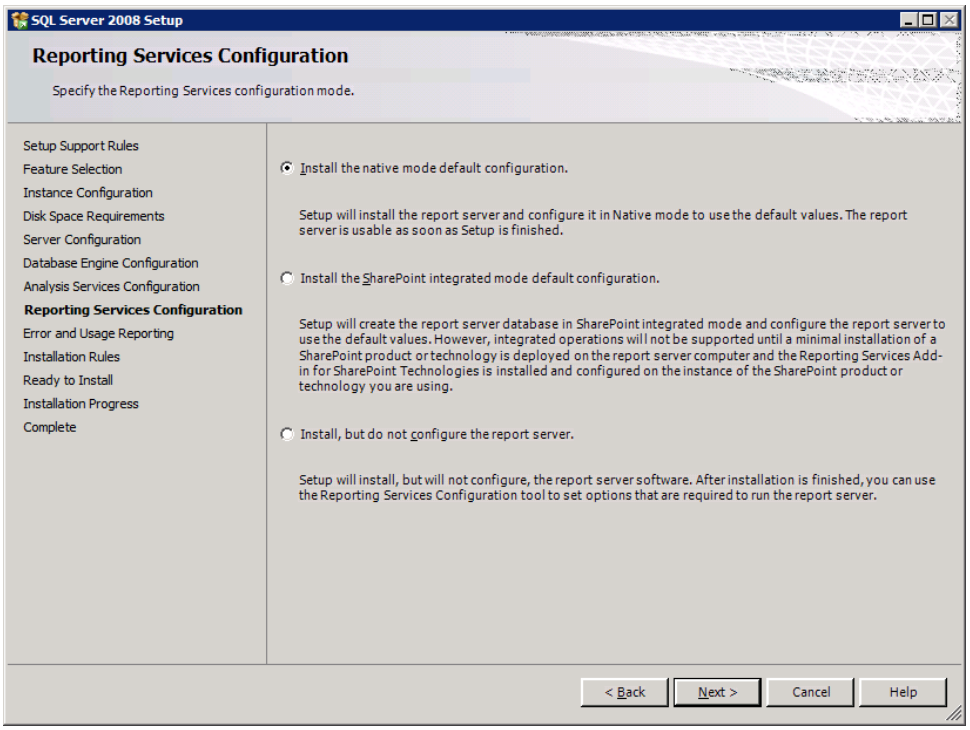
SQL Server 2008 Setup
Reporting Services Configuration
Specify the Reporting Services configuration mode.
Setup Support Rules
Feature Selection
Instance Configuration
Disk Space Requirements
Server Configuration
Database Engine Configuration
Analysis Services Configuration
Reporting Services Configuration
Error and Usage Reporting
Installation Rules
Ready to Install
Installation Progress
Complete
Install the native mode default configuration.
Setup will install the report server and configure it in Native mode to use the default values. The report server is usable as soon as Setup is finished.
Install the SharePoint integrated mode default configuration.
Setup will create the report server database in SharePoint integrated mode and configure the report server to use the default values. However, integrated operations will not be supported until a minimal installation of a SharePoint product or technology is deployed on the report server computer and the Reporting Services Add-in for SharePoint Technologies is installed and configured on the instance of the SharePoint product or technology you are using.
Install, but do not configure the report server.
Setup will install, but will not configure, the report server software. After installation is finished, you can use the Reporting Services Configuration tool to set options that are required to run the report server.
< Back
Next >
Cancel
Help

Figure 3-6-9 Reporting Services Configuration screen

Continue on with the next few screen, until the "Ready to Install" screen appear, click on "Install" to start the installation.

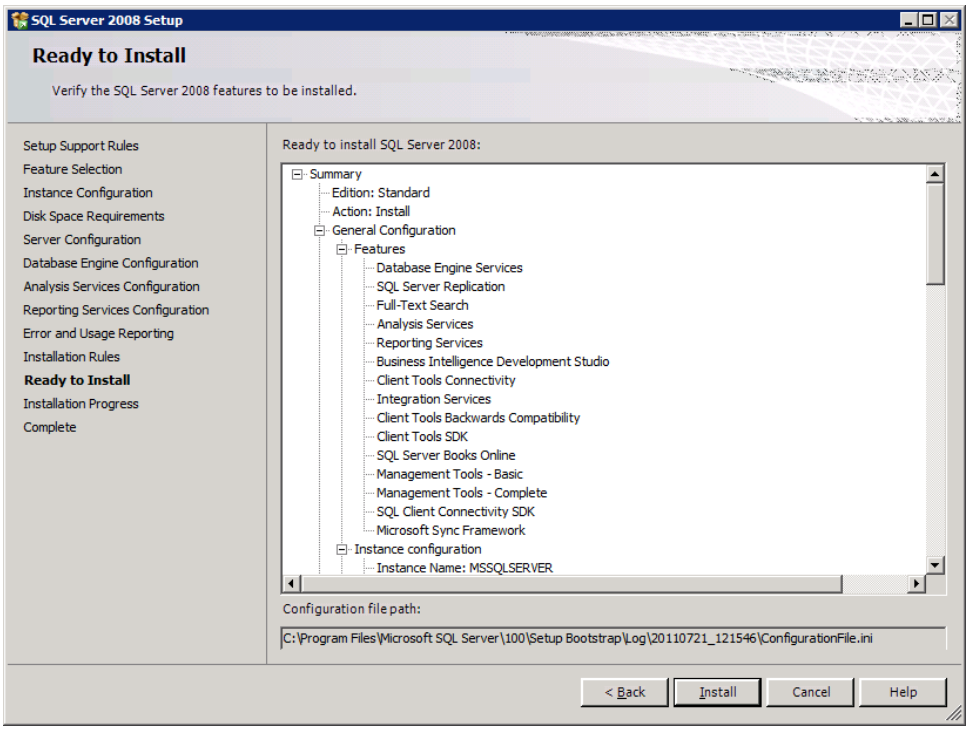

Figure 3-6-10 Ready to Install screen

Once the installation has started the "Setup Progress" screen appears. The installation will take some time to complete. When the installation completes, the "Installation progress" screen will be displayed. If there are no errors encountered click on "Next".

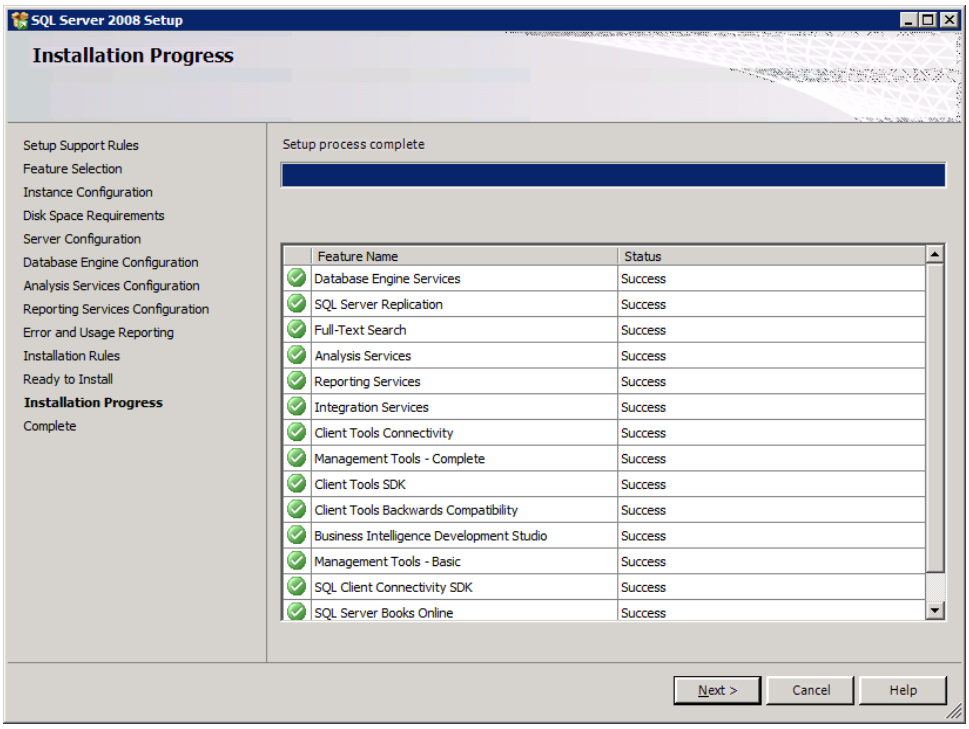

Figure 3-6-11 Setup Progress

The "Complete" appears. Click on "Close" to exit the installation.

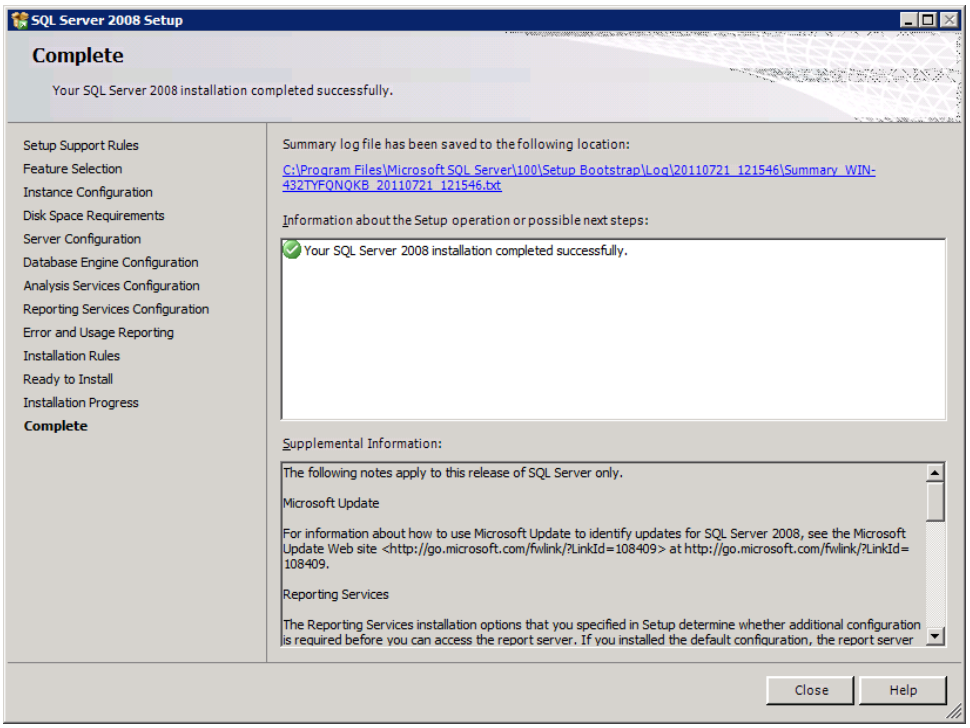
SQL Server 2008 Setup
Complete
Your SQL Server 2008 installation completed successfully.
Setup Support Rules
Feature Selection
Instance Configuration
Disk Space Requirements
Server Configuration
Database Engine Configuration
Analysis Services Configuration
Reporting Services Configuration
Error and Usage Reporting
Installation Rules
Ready to Install
Installation Progress
Complete
Summary log file has been saved to the following location:
C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Log\20110721_121546\Summary_WIN-432TYFQNQKB_20110721_121546.txt
Information about the Setup operation or possible next steps:
Your SQL Server 2008 installation completed successfully.
Supplemental Information:
The following notes apply to this release of SQL Server only.
Microsoft Update
For information about how to use Microsoft Update to identify updates for SQL Server 2008, see the Microsoft Update Web site <http://go.microsoft.com/fwlink/?LinkId=108409> at http://go.microsoft.com/fwlink/?LinkId=108409.
Reporting Services
The Reporting Services installation options that you specified in Setup determine whether additional configuration is required before you can access the report server. If you installed the default configuration, the report server
Close
Help

Figure 3-6-12 Complete Microsoft SQL Server 2008 Setup

3.6.2 STARTING THE SQL SERVER

The SQL Server Service should already be started by the installation. If there is a need to manually start the SQL Server Service, this can be accomplished by simply rebooting the computer or you may start the Server manually as follows:

Go to START → SETTINGS→ CONTROL PANEL→ ADMINISTRATIVE TOOLS→ COMPONENT SERVICES→ SERVICES (LOCAL).

Perform a right click on the SQL Server (MSSQLSERVER) entry and click on "start."

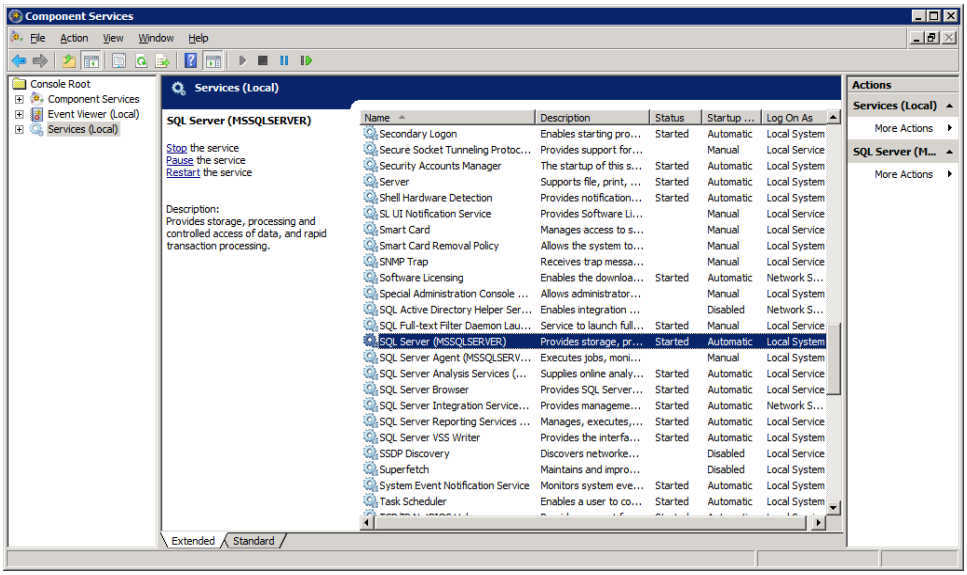

Figure 3-6-13 Manually starting the SQL server service

3.6.3 CONFIGURATION OF A WINDOWS ACCOUNT FOR USE WITH SQL SERVER

Now that you have successfully installed and started SQL Server, you must create an account that will allow the DigiTrace Supervisor Master Server to access the service.

To accomplish this, go to START → SETTINGS→ CONTROL PANEL→ ADMINISTRATIVE TOOLS→ COMPUTER MANAGEMENT→ LOCAL USERS & GROUPS→ USERS.

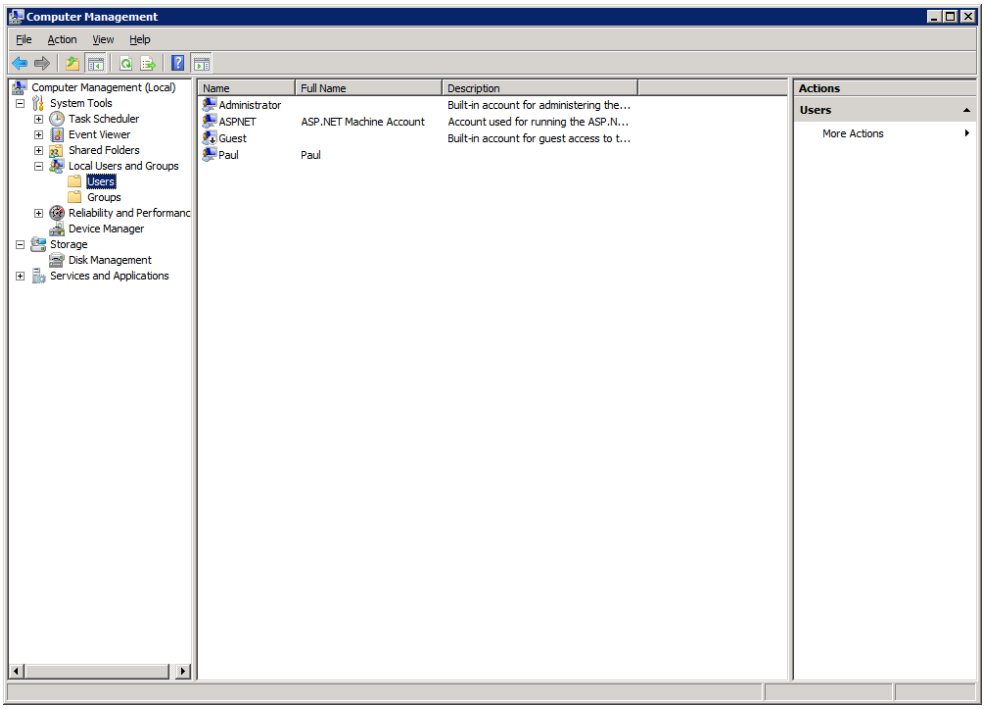

Figure 3-6-14 Creating a new local user

Right click in the Name area (right-hand side) of the window and click on New User. You may choose any name that you wish for the account, but a name that is representative of the account's use is recommended. For example, "DigiTrace Master" could be used. Complete each field making specific note of the User name and Password, as these parameters will be required when setting up the Master Server Software. Click "Create" to complete the operation.

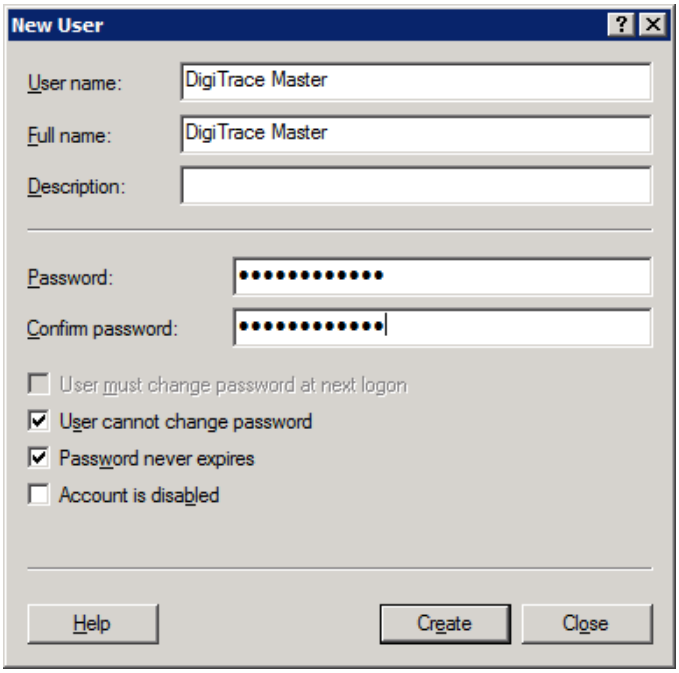

Figure 3-6-15 New user setup

Once the user has been created, it will appear in the user list. Right click on the new user name and go to Properties. Once in the Properties window, choose the General tab and ensure that User cannot change password and Password never expires are both selected.

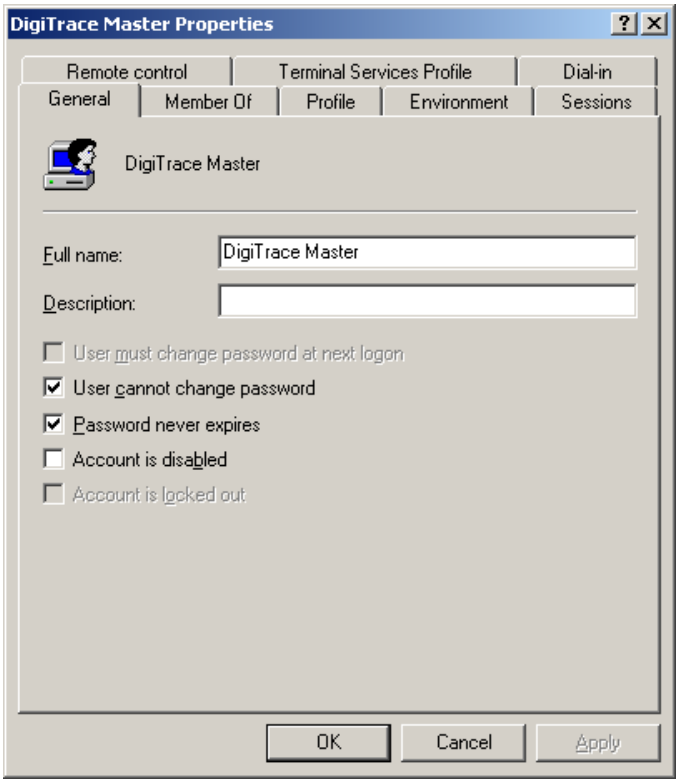

Figure 3-6-16 New user properties

Next, choose the Member Of tab and click on the Add button.

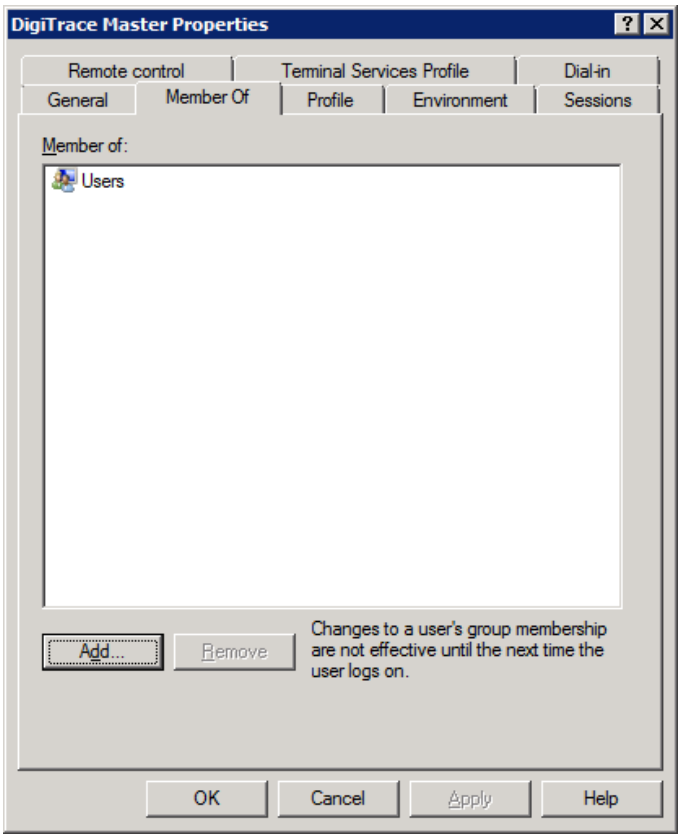

Figure 3-6-17 New user group assignment

In the list of groups, choose Administrators and then click on "Add". This step will ensure that the DigiTrace Master Server user will have the access it needs to interact with the SQL Server service.

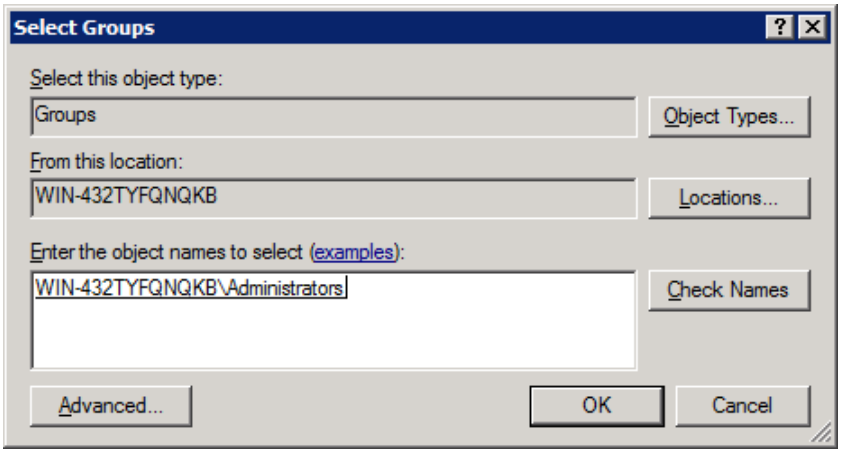

Figure 3-6-18 Set the new user as an administrator

Once the Administrators group has been added, the new user should be a member of both the Administrators and Users groups.

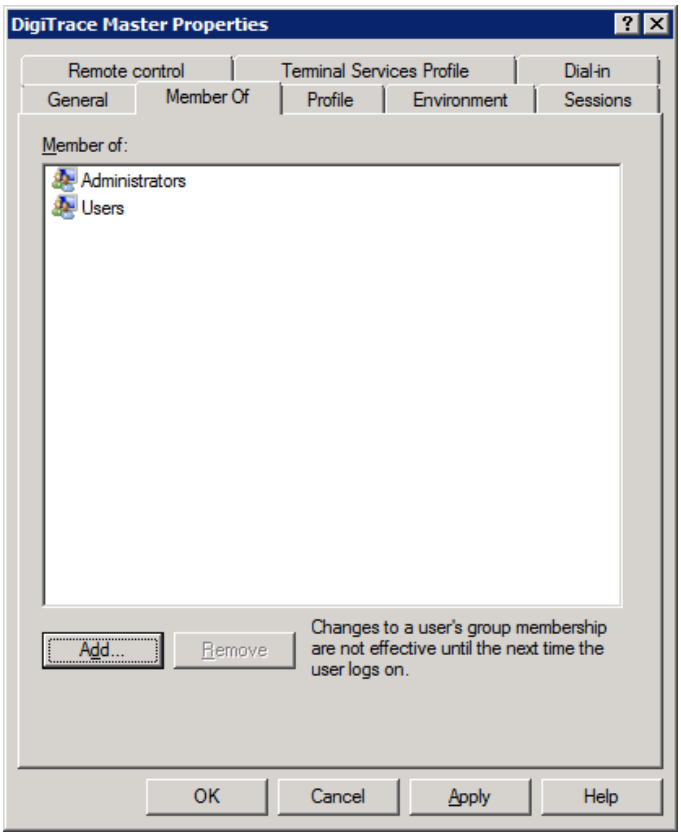

Figure 3-6-19 User Membership List

Click on "Apply" and then "OK." The new user name should be added to the list.

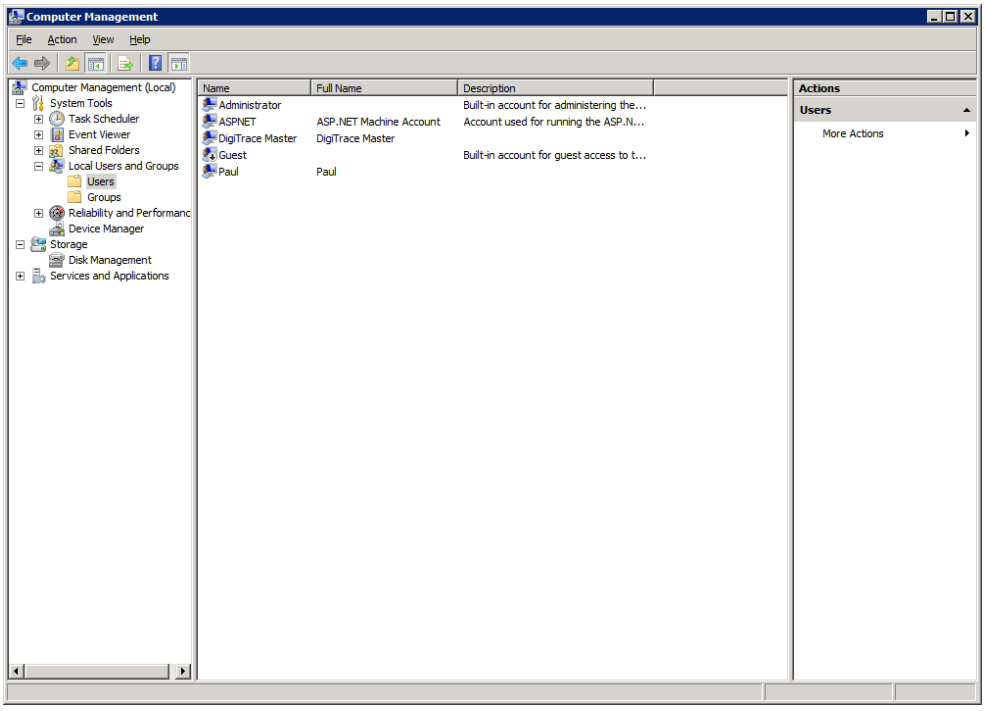

Figure 3-6-20 Addition of the new user

3.6.4 WINDOWS SERVER LICENSING

The computer on which SQL Server is installed must use Microsoft Windows® 2003 Server or Windows® 2008 Server as the operating system. **The user is responsible for ensuring**

that the proper licensing following the latest requirements is obtained from Microsoft for legal use of Windows® Server and User or Device connections.

A number of options for Windows Server Client Access Licenses (CALs) are available from Microsoft. For a detailed description of the various options, see the Microsoft Website at www.microsoft.com/resources/sam/lic_cal.mspx .

Typical DigiTrace Supervisor systems will use a mix of Device and User CALs. You will need to purchase a separate Windows Server Device CAL for each Master and Slave Server and a separate Windows Server User CAL for each user in your DigiTrace system.

3.7 Uninstalling Microsoft SQL Server 2008

You may remove Microsoft SQL Server 2008 from your computer system by following these steps:

5. Click the START button, then Select Control Panel.
6. Double-Click Add/Remove Programs.
7. In the list of installed programs, select Microsoft SQL Server 2008. Click on the Remove button.
8. Follow the instructions that appear on the screen.

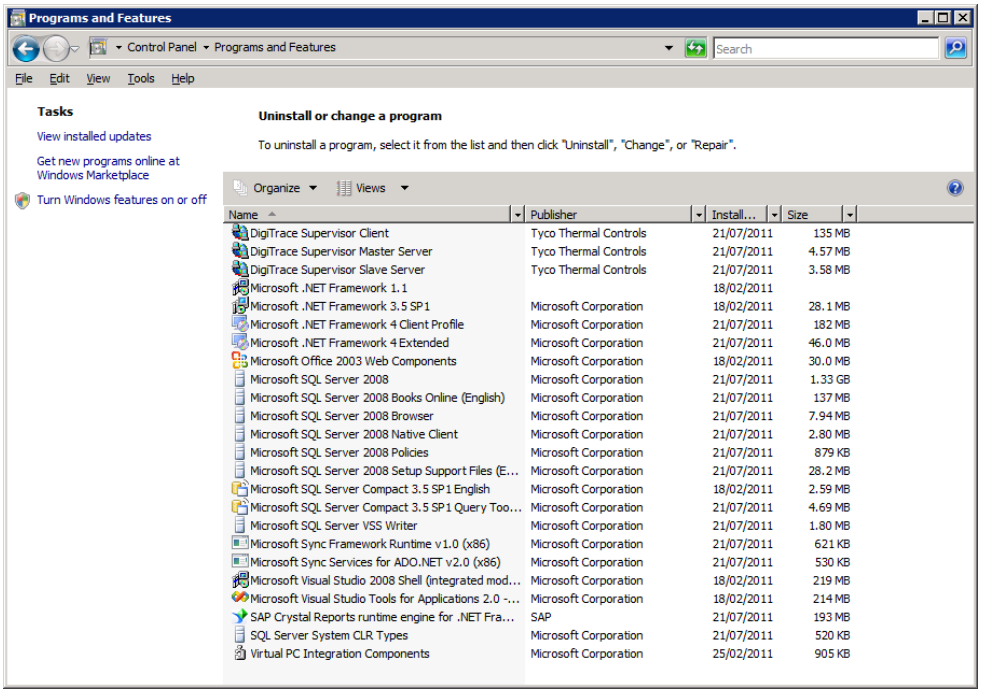
Programs and Features
Control Panel ▸ Programs and Features
Search
File Edit View Tools Help
Tasks
View installed updates
Get new programs online at Windows Marketplace
Turn Windows features on or off
Uninstall or change a program
To uninstall a program, select it from the list and then click "Uninstall", "Change", or "Repair".
Organize
Views
Name | Publisher | Install... | Size
DigiTrace Supervisor Client | Tyco Thermal Controls | 21/07/2011 | 135 MB
DigiTrace Supervisor Master Server | Tyco Thermal Controls | 21/07/2011 | 4.57 MB
DigiTrace Supervisor Slave Server | Tyco Thermal Controls | 21/07/2011 | 3.58 MB
Microsoft .NET Framework 1.1 | | 18/02/2011 |
Microsoft .NET Framework 3.5 SP1 | Microsoft Corporation | 18/02/2011 | 28.1 MB
Microsoft .NET Framework 4 Client Profile | Microsoft Corporation | 21/07/2011 | 182 MB
Microsoft .NET Framework 4 Extended | Microsoft Corporation | 21/07/2011 | 46.0 MB
Microsoft Office 2003 Web Components | Microsoft Corporation | 18/02/2011 | 30.0 MB
Microsoft SQL Server 2008 | Microsoft Corporation | 21/07/2011 | 1.33 GB
Microsoft SQL Server 2008 Books Online (English) | Microsoft Corporation | 21/07/2011 | 137 MB
Microsoft SQL Server 2008 Browser | Microsoft Corporation | 21/07/2011 | 7.94 MB
Microsoft SQL Server 2008 Native Client | Microsoft Corporation | 21/07/2011 | 2.80 MB
Microsoft SQL Server 2008 Policies | Microsoft Corporation | 21/07/2011 | 879 KB
Microsoft SQL Server 2008 Setup Support Files (E... | Microsoft Corporation | 21/07/2011 | 28.2 MB
Microsoft SQL Server Compact 3.5 SP1 English | Microsoft Corporation | 18/02/2011 | 2.59 MB
Microsoft SQL Server Compact 3.5 SP1 Query Too... | Microsoft Corporation | 21/07/2011 | 4.69 MB
Microsoft SQL Server VSS Writer | Microsoft Corporation | 21/07/2011 | 1.80 MB
Microsoft Sync Framework Runtime v1.0 (x86) | Microsoft Corporation | 21/07/2011 | 621 KB
Microsoft Sync Services for ADO.NET v2.0 (x86) | Microsoft Corporation | 21/07/2011 | 530 KB
Microsoft Visual Studio 2008 Shell (integrated mod... | Microsoft Corporation | 18/02/2011 | 219 MB
Microsoft Visual Studio Tools for Applications 2.0 -... | Microsoft Corporation | 18/02/2011 | 214 MB
SAP Crystal Reports runtime engine for .NET Fra... | SAP | 21/07/2011 | 193 MB
SQL Server System CLR Types | Microsoft Corporation | 21/07/2011 | 520 KB
Virtual PC Integration Components | Microsoft Corporation | 25/02/2011 | 905 KB

Figure 3-7-1 Remove Microsoft SQL Server 2008

3.8 Installing DigiTrace Supervisor

The installation program will start up the Installation Wizard, which will guide you through the installation process. You are required to read and accept the Software License Agreement. Once you read and agree with the license agreement, click the Yes button and the installation will continue. If you do not agree with the license agreement, click No and the installation will terminate.

IMPORTANT: The following Sections assume that you have already installed a database application (either SQL EXPRESS or SQL Server) on the same computer as the one where the DigiTrace Supervisor Master Server software will be installed. If you have not yet completed this step, refer to Sections 3.2 for additional information on how to do this.

3.8.1 INSTALLING DIGITRACE SUPERVISOR (DTS) MASTER SERVER

To start the DigiTrace Master Server installation, insert the "DigiTrace Supervisor Disk 1 – Application and Utilities" CD (SQL versions) into the PC's CD-Rom drive. Navigate to the Installation folder and double click on the DTSMasterServerSetup.exe file. The installation begins by checking the computer for software components that are required to run DigiTrace Supervisor. If there are components missing, it will install them for you. You may be asked to reboot your computer during the installation of those components, please select Yes to reboot.

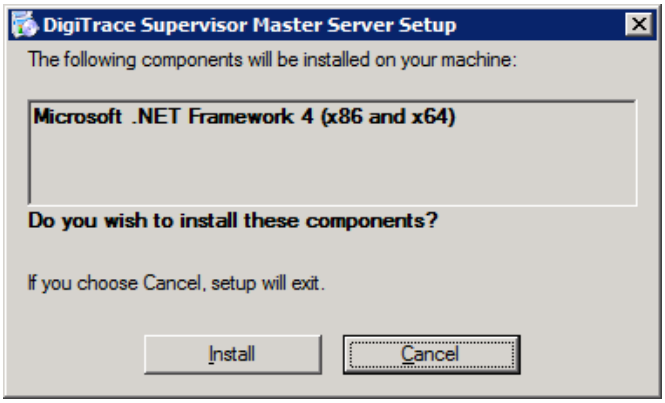
DigiTrace Supervisor Master Server Setup
The following components will be installed on your machine:
Microsoft .NET Framework 4 (x86 and x64)
Do you wish to install these components?
If you choose Cancel, setup will exit.
Install
Cancel

Figure 3-8-1 Setup screen showing missing components to be installed

If there are no missing components the "Welcome to the DigiTrace Supervisor Master Server Setup Wizard" screen will appear. Click on "Next" to continue to the License Agreement.

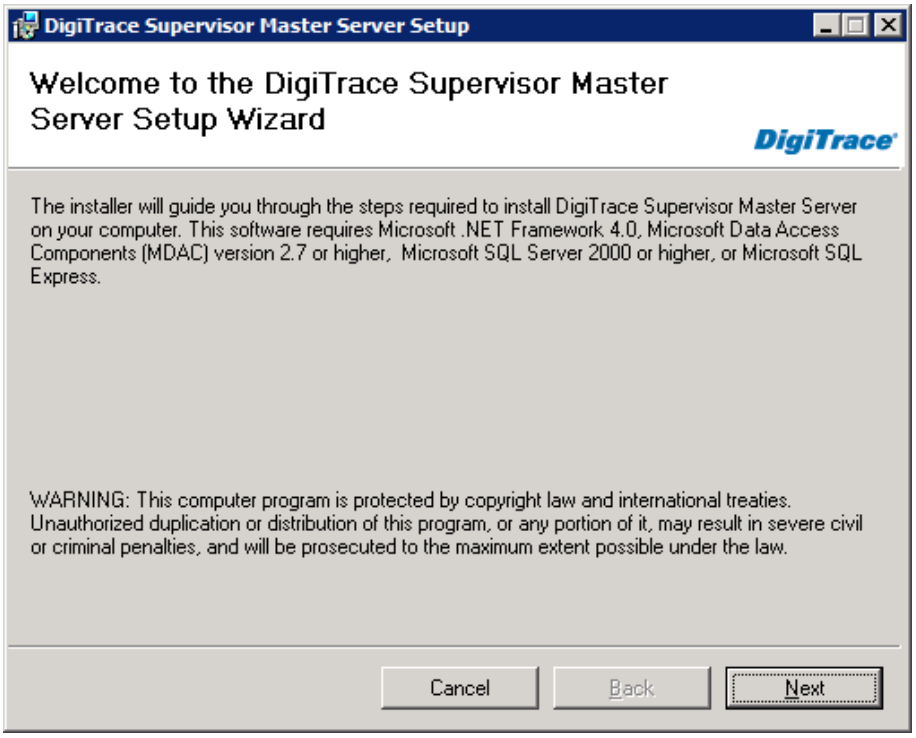
DigiTrace Supervisor Master Server Setup
Welcome to the DigiTrace Supervisor Master Server Setup Wizard
DigiTrace
The installer will guide you through the steps required to install DigiTrace Supervisor Master Server on your computer. This software requires Microsoft .NET Framework 4.0, Microsoft Data Access Components (MDAC) version 2.7 or higher, Microsoft SQL Server 2000 or higher, or Microsoft SQL Express.
WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.
Cancel
Back
Next

Figure 3-8-2 Welcome screen for DTS Master Server installation

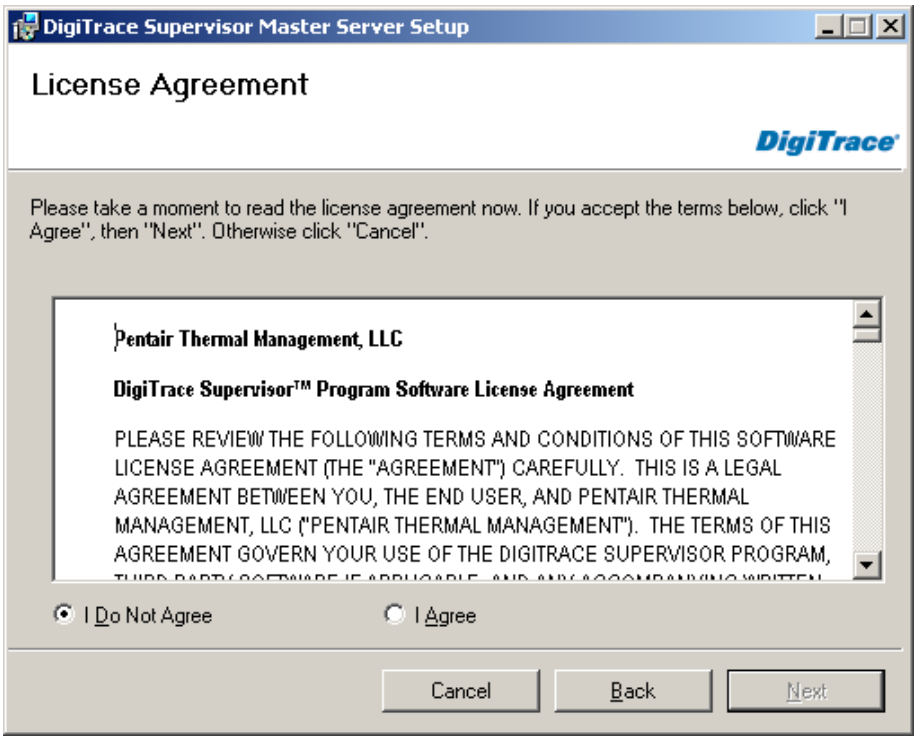
DigiTrace Supervisor Master Server Setup
License Agreement
DigiTrace
Please take a moment to read the license agreement now. If you accept the terms below, click "I Agree", then "Next". Otherwise click "Cancel".
Pentair Thermal Management, LLC
DigiTrace Supervisor™ Program Software License Agreement
PLEASE REVIEW THE FOLLOWING TERMS AND CONDITIONS OF THIS SOFTWARE LICENSE AGREEMENT (THE "AGREEMENT") CAREFULLY. THIS IS A LEGAL AGREEMENT BETWEEN YOU, THE END USER, AND PENTAIR THERMAL MANAGEMENT, LLC ("PENTAIR THERMAL MANAGEMENT"). THE TERMS OF THIS AGREEMENT GOVERN YOUR USE OF THE DIGITRACE SUPERVISOR PROGRAM,
I Do Not Agree
I Agree
Cancel
Back
Next

Figure 3-8-3 License Agreement for DTS Master Server

Continue with the next few screens until the Installation complete screen. At this point, the DTS Master Server software is already installed in your computer, however the next step is to associate the SQL Server that will be used by the DTS Master Server. The DTS Master Server Configuration Utility will guide you from this point on.

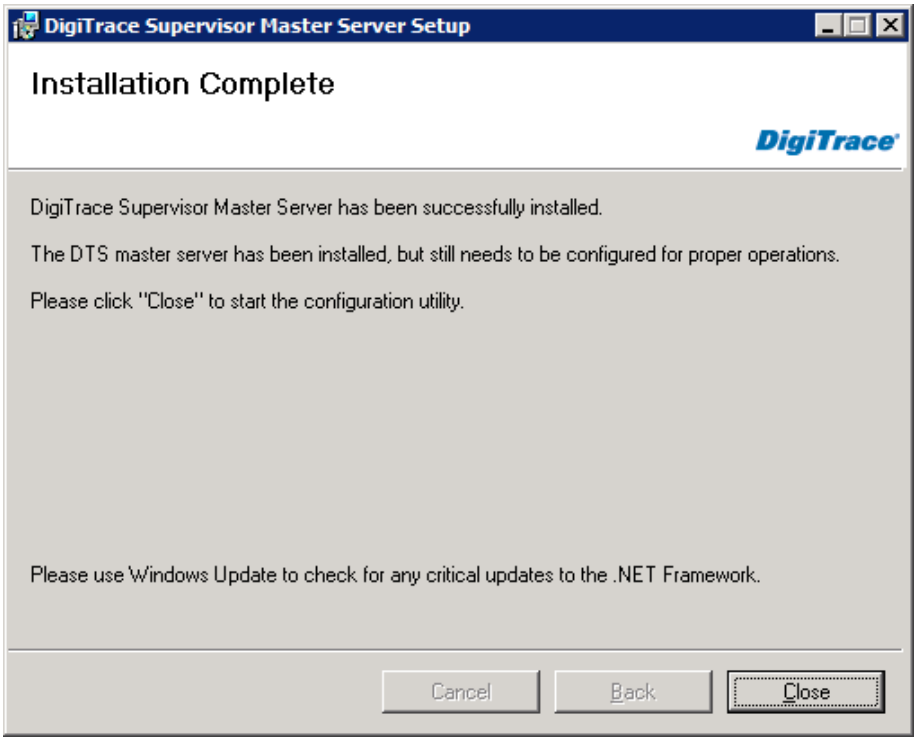
DigiTrace Supervisor Master Server Setup
Installation Complete
DigiTrace
DigiTrace Supervisor Master Server has been successfully installed.
The DTS master server has been installed, but still needs to be configured for proper operations.
Please click "Close" to start the configuration utility.
Please use Windows Update to check for any critical updates to the .NET Framework.
Cancel
Back
Close

Figure 3-8-4 DTS Master Server Installation Complete

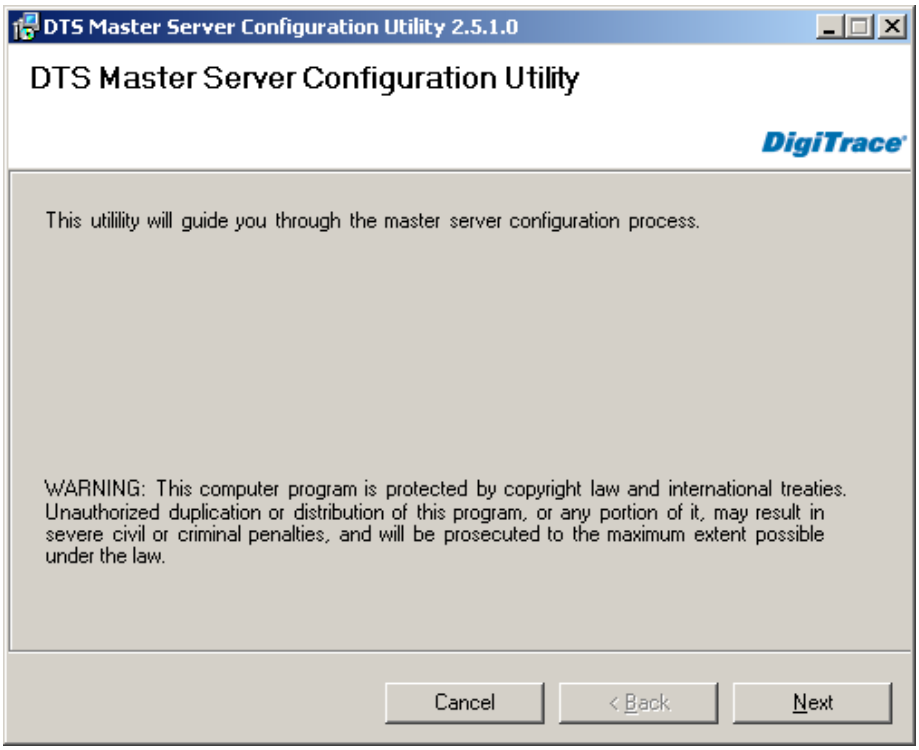
DTS Master Server Configuration Utility 2.5.1.0
DTS Master Server Configuration Utility
DigiTrace
This utilility will guide you through the master server configuration process.
WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.
Cancel
< Back
Next

Figure 3-8-5 DTS Master Server Configuration Utility

You will be prompted to enter a Database Server Name – enter the name that was defined during the database installation process (see Figures 3.2.1). If you did not enter a specific database Instance name as instructed, then the name will simply be the Master Server computer name. If you do not recall your computer name, you can find it by performing a right click on My Computer and going to Properties. Once the window opens, click on the Computer Name tab.

Once you know your Computer Name enter it into the Database Server Name field and click on "Next." (Refer to **Error! Reference source not found.**-6)

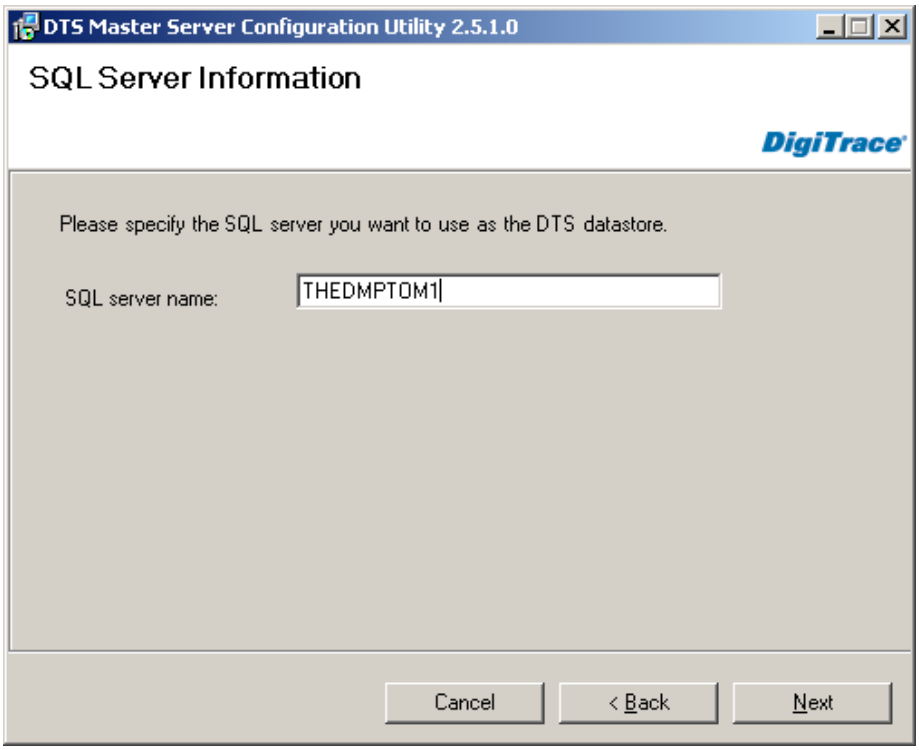

Figure 3-8-6 DTS database server information screen

If you are installing over an existing DTS installation, you will be prompted to choose an Existing System Database option, otherwise the Confirm Configuration screen will be displayed.

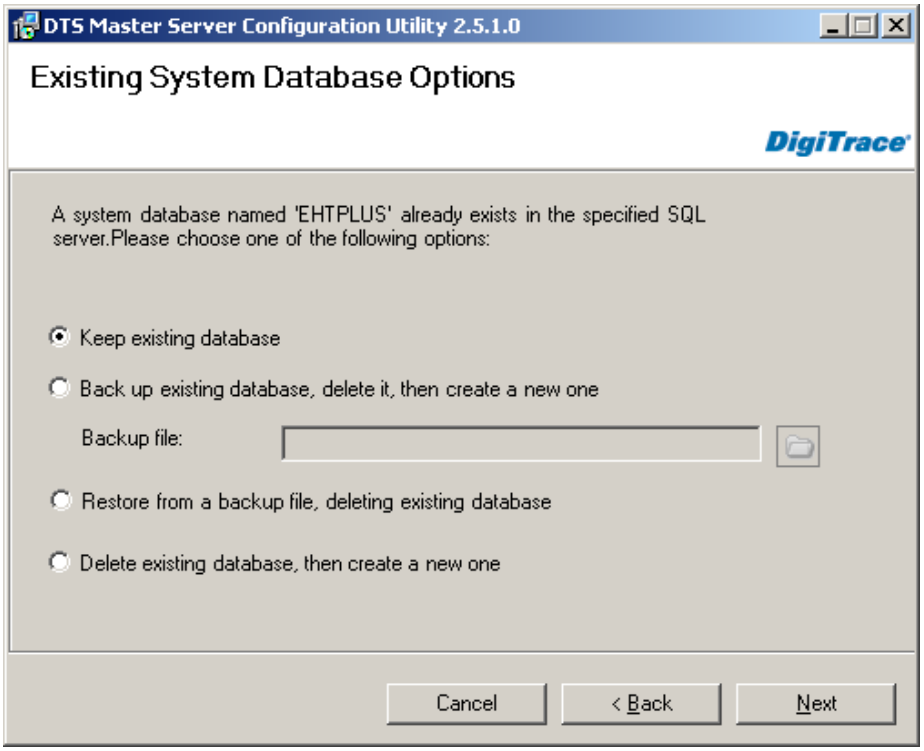
DTS Master Server Configuration Utility 2.5.1.0
Existing System Database Options
DigiTrace
A system database named 'EHTPLUS' already exists in the specified SQL server.Please choose one of the following options:
Keep existing database
Back up existing database, delete it, then create a new one
Backup file:
Restore from a backup file, deleting existing database
Delete existing database, then create a new one
Cancel
< Back
Next

Figure 3-8-7 DTS database server information screen

Click "Next" to continue.

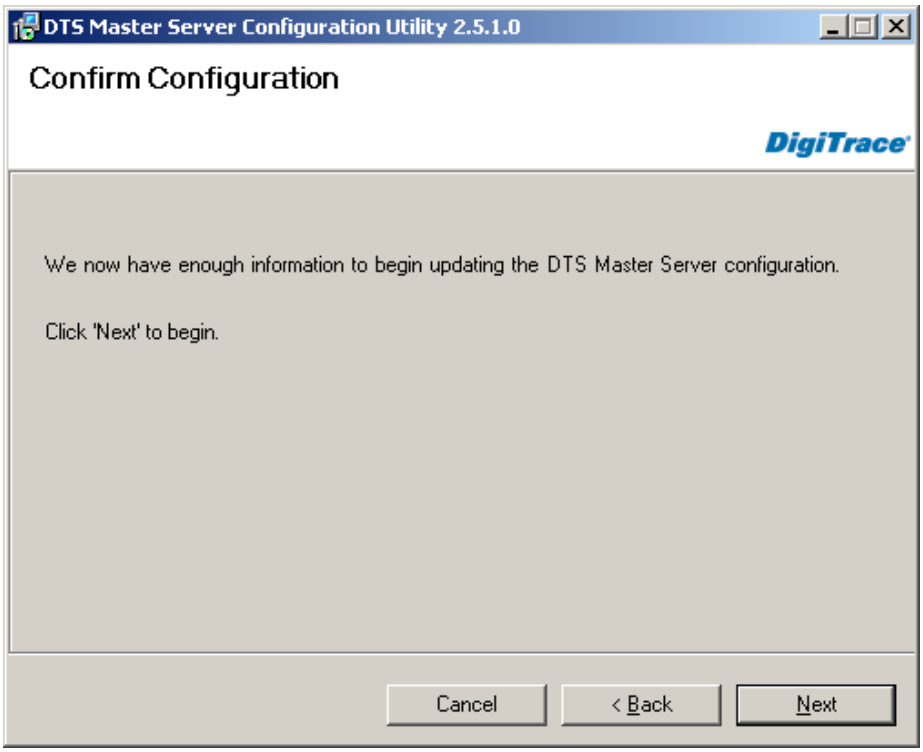

Figure 3-8-8 DTS database server information screen

If there are errors encountered during the installation, please refer to section Appendix – B Troubleshooting on how to correct the problem, otherwise the installation Complete screen is displayed. Make sure the checkbox for the "Restart DTS Master Server for the new configuration to take effect" is checked, then click "Close" to exit the installation.

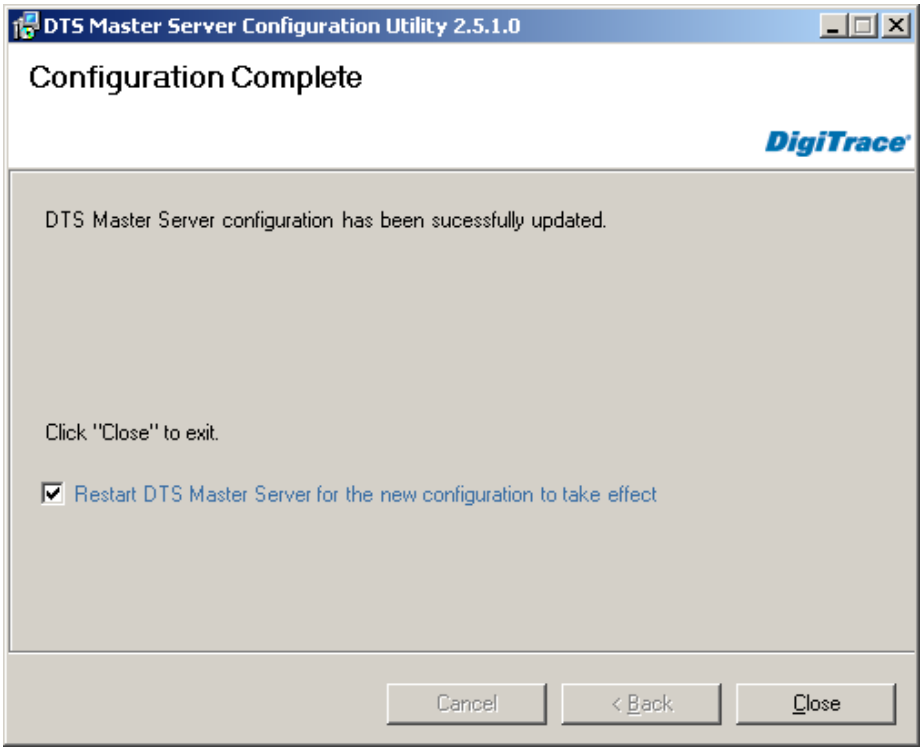
DTS Master Server Configuration Utility 2.5.1.0
Configuration Complete
DigiTrace
DTS Master Server configuration has been sucessfully updated.
Click "Close" to exit.
Restart DTS Master Server for the new configuration to take effect
Cancel
< Back
Close

Figure 3-8-9 DTS database server information screen

3.8.2 CONFIGURING THE MASTER SERVER SOFTWARE

After installing the Master Server Software, perform the following steps to configure the Master Server:

For SQL Server-based installations perform the following additional steps:

You must configure the Master Service to automatically log in to Windows Server. To do this, go to START → SETTINGS→ CONTROL PANEL→ ADMINISTRATIVE TOOLS→ COMPONENT SERVICES→ SERVICES (LOCAL)→ DIGITRACE SUPERVISOR MASTER SERVER SERVICE.

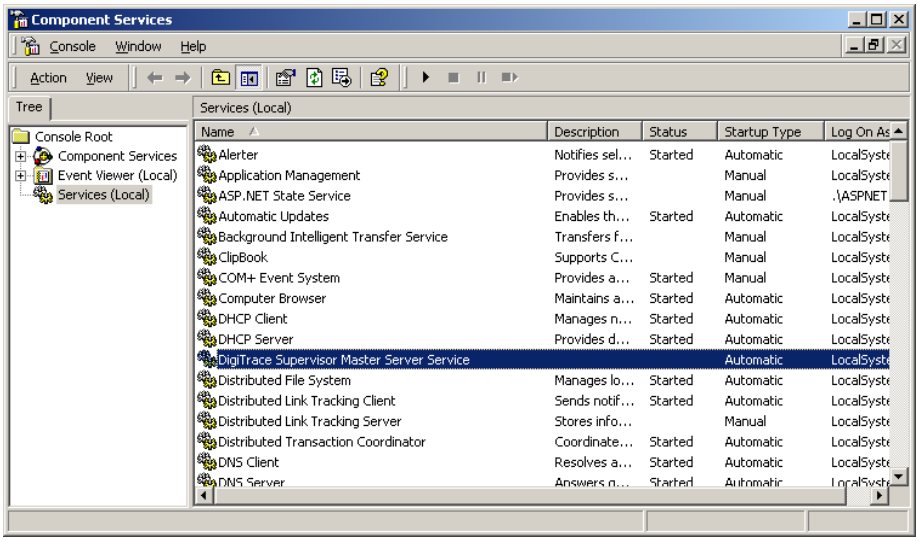

Figure 3-8-10 Configure the master server

Right click on DigiTrace Supervisor Master Server Services and select Properties. Once in the Properties window, choose the Log On tab. Select Log On as: and This account. Click on the "Browse" button and choose the new user account that was created in Section 3.2.3 . Enter the same password that you used when the account was created.

IMPORTANT: You must re-enter the password into both the Password and the Confirm Password fields.

Click on "Apply" and then "OK."

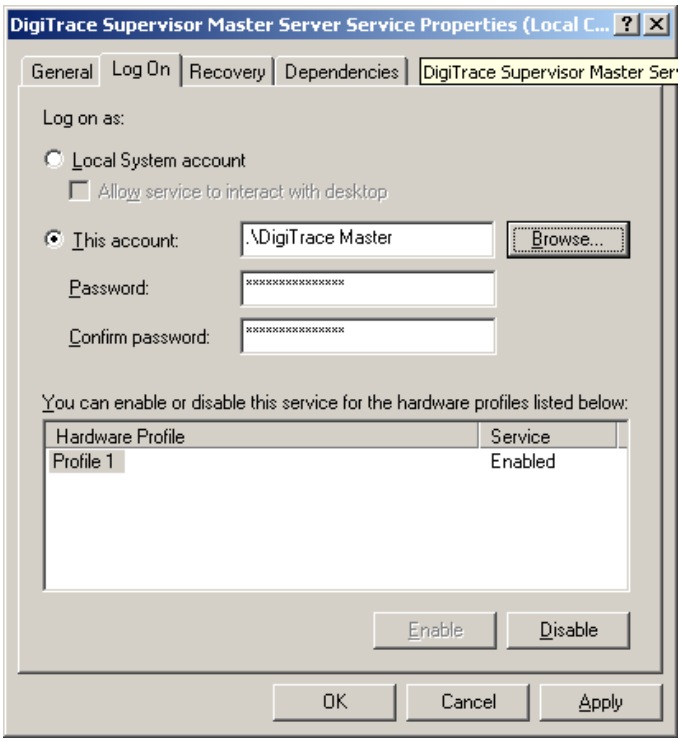

Figure 3-8-11 Set the log on account

If successful, you will be granted access to the Windows Server.

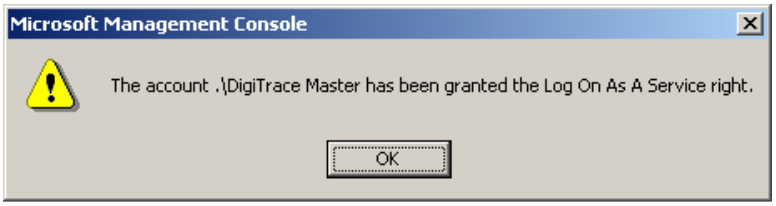

Figure 3-8-12 Access granted to the Windows Server

3.8.3 CONFIGURING MICROSOFT SQL 2000 WITH THE (DTS) MASTER SERVER

SQL Server 2000 must be configured to allow the Master Server to connect to it. Do this by clicking on START→ PROGRAMS→ MICROSOFT SQL SERVER→ ENTERPRISE MANAGER→ MICROSOFT SQL SERVERS→ SQL SERVER GROUP→ MASTERSVR-SQL1→ DATABASES→ EHTPLUS→ USERS.

IMPORTANT: In the example above, the Database Server name is "MASTERSVR-SQL1". In your application, this will be replaced by the Database Server name that was assigned during the database server installation process (refer to Section 3.2.1).

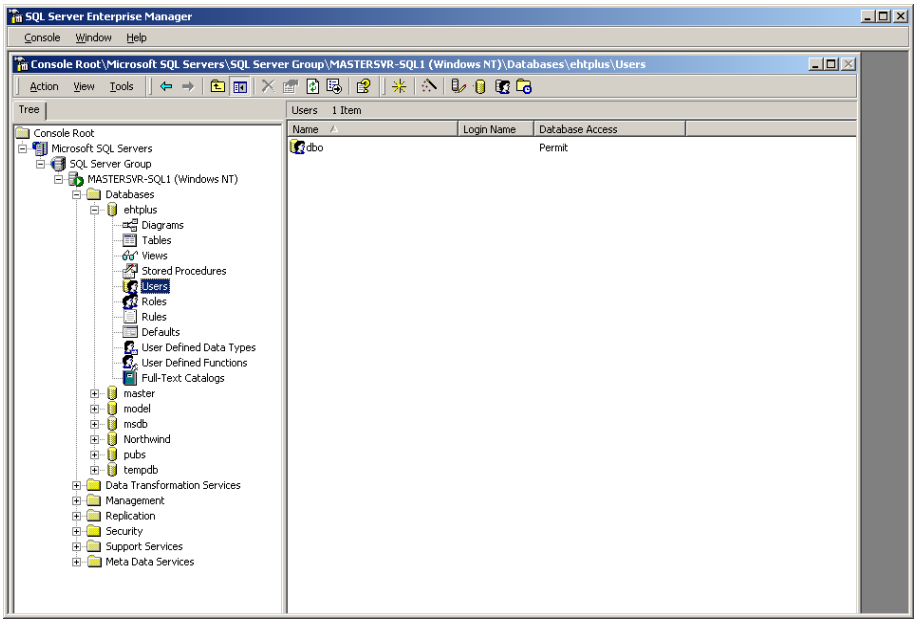

Figure 3-8-13 Database users

Right Click on the right hand side of the screen and choose New Database User. In the Database User Properties window, choose the Login name that was created in Section 3.2 (see Figure 3-2-6). If the name does not appear in the list, click on "<new>" to add it.

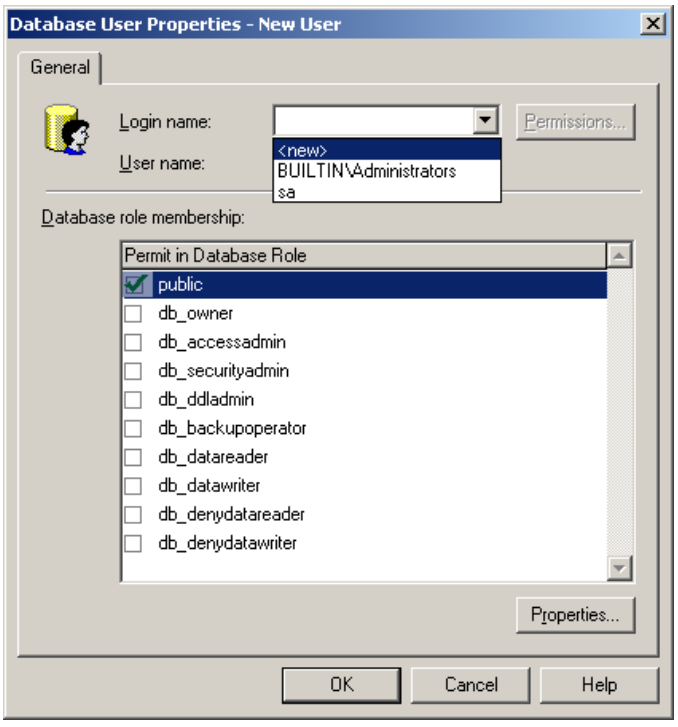

Figure 3-8-14 Select the database user

In the SQL Server Login Properties – New Login window, click on the "..." button to browse and pick the user name that was previously created in Section 3.2 (Figure 3-2-6). Click "Add" and then "OK."

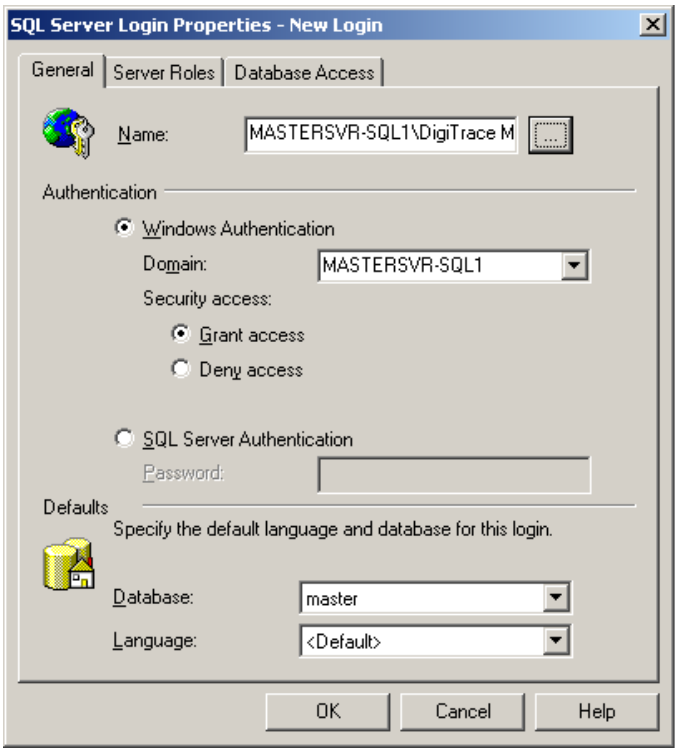

Figure 3-8-15 Add a new database user

The Authentication and Defaults fields will automatically be populated with the appropriate information once the new user has been added. Do not modify these settings. Click "OK" to accept.

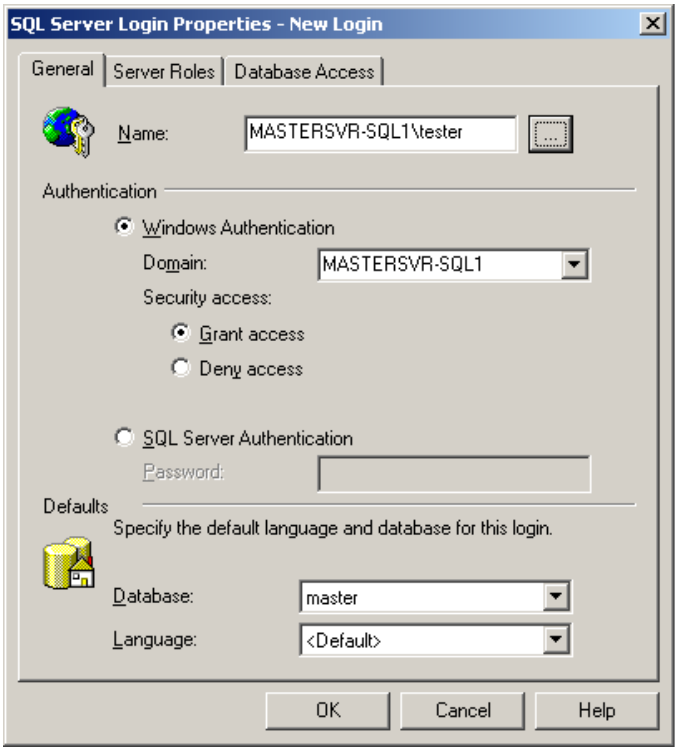

Figure 3-8-16 Add new database user

After the Login name has been chosen, ensure that both the public and db_owner selections are enabled in the Database role membership area. Then click "OK."

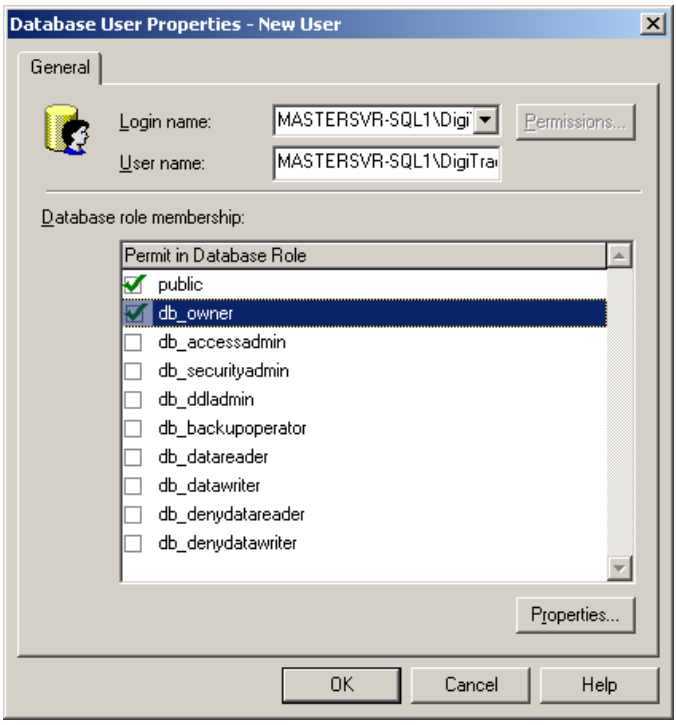

Figure 3-8-17 Set database role

The SQL Server Enterprise Manager should now show the DigiTrace Master Server as a database user.

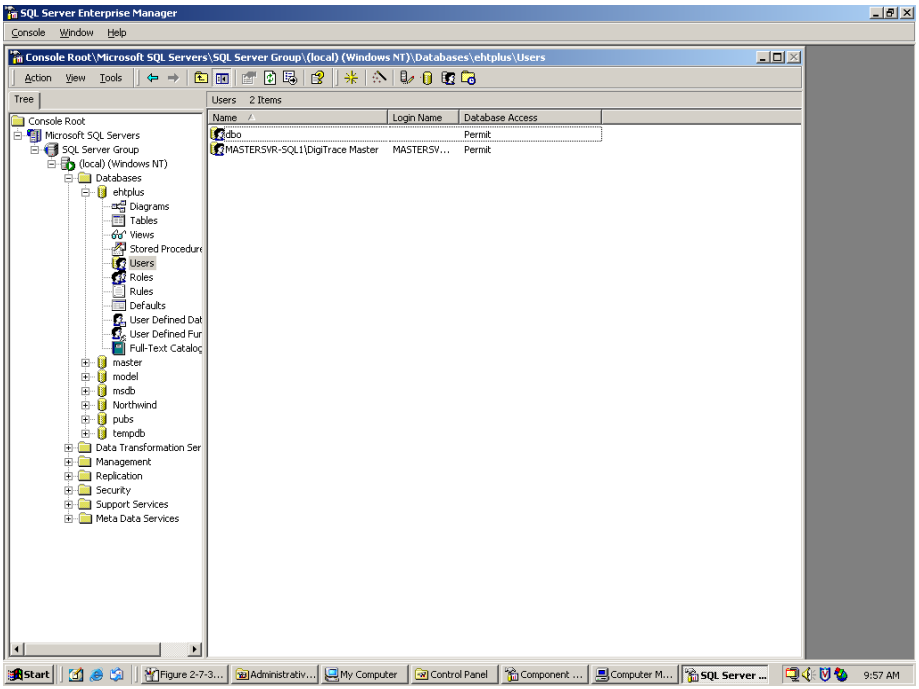

Figure 3-8-18 New database user created

Close the SQL Server Enterprise Manager window.

3.8.4 CONFIGURING MICROSOFT SQL 2005 WITH THE (DTS) MASTER SERVER

SQL Server 2005 must be configured to allow the Master Server to connect to it. Do this by clicking on START→ PROGRAMS→ MICROSOFT SQL SERVER 2005→ SQL SERVER MANAGEMENT STUDIO. You will be prompted to login to the SQL database Server.

Figure 3-8-19 Connect to Server

Once the connection is successful navigate to WINSERVER2003→ DATABASES→ EHTPLUS→ SECURITY→ LOGINS.

IMPORTANT: In the example above, the Database Server name is "WINSERVER2003". In your application, this will be replaced by the Database Server name that was assigned during the database server installation process (refer to Section 3.2.1).

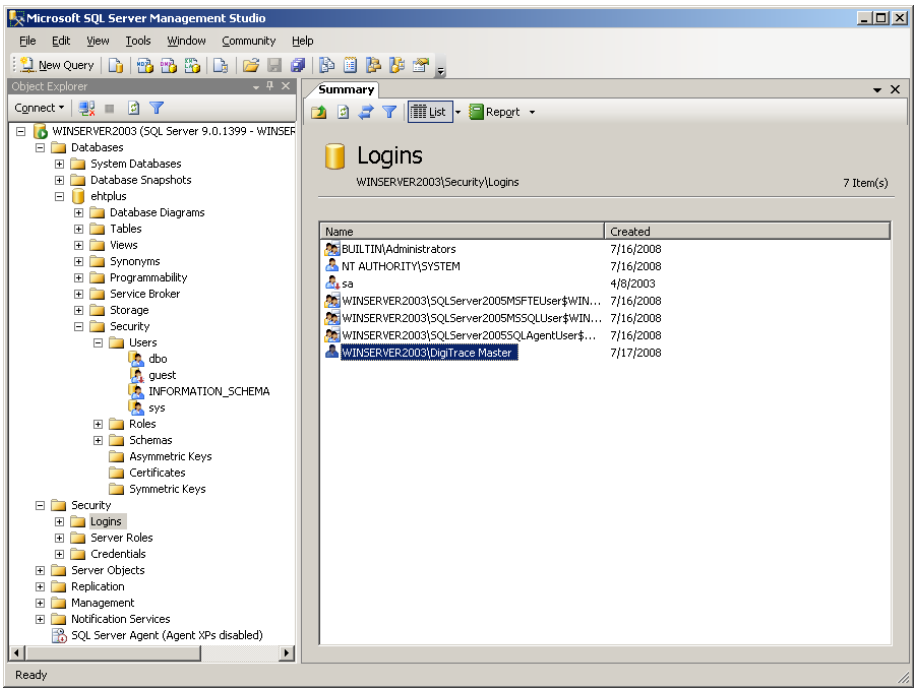

Figure 3-8-20 Microsoft SQL Server Management Studio Logins

Right Click on the right hand side of the screen and choose New Logins. Enter the name that was previously created in section 3.6.3 (i.e. DigiTrace Master). The Authentication and Defaults fields will automatically be populated with the appropriate information once the new login has been added. Do not modify these settings. Click "OK" to accept.

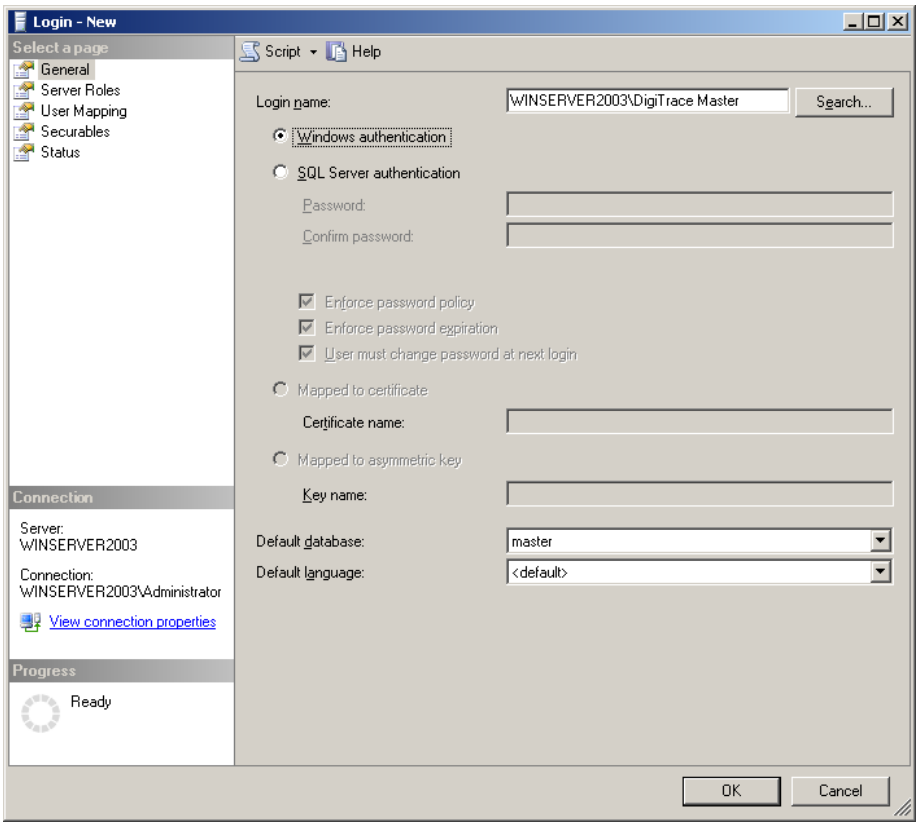

Figure 3-8-21 New Login

After you've successfully added the new Login, navigate to WINSERVER2003→ DATABASES→ EHTPLUS→ SECURITY→ USERS and add a new user. Enter a new user name such as DigiTrace Master and use the browse button to select the previously created Login name "DigiTrace Master" for the Login name field. Select db_accessadmin and db_owner for both Owned Schemas and Role Members field. Click "OK" to save the new user.

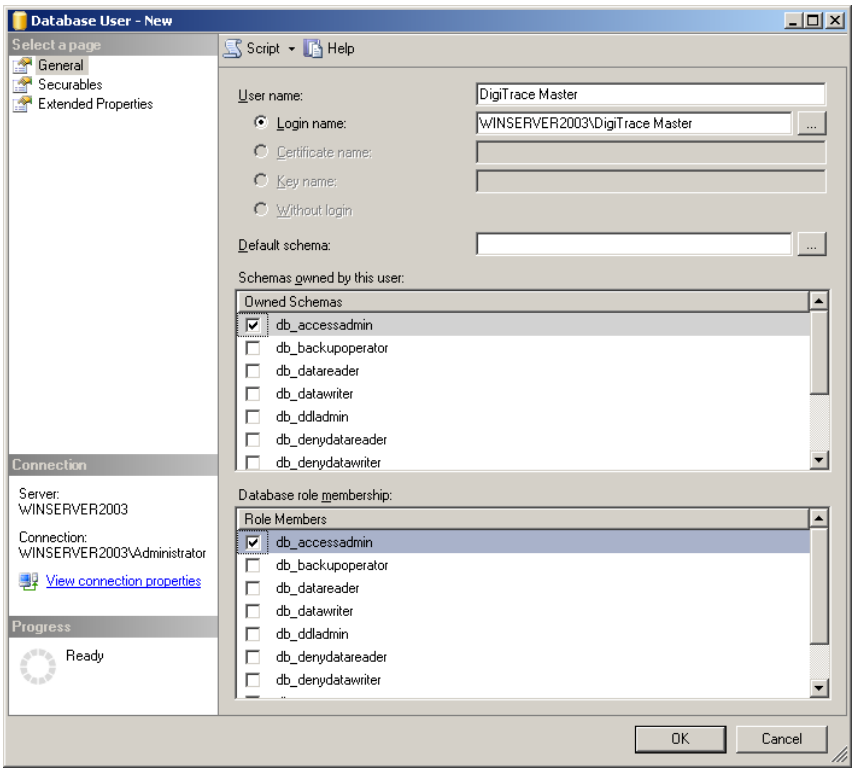

Figure 3-8-22 Add a new database user

After you successfully added the new user, it will appear in the Users screen.

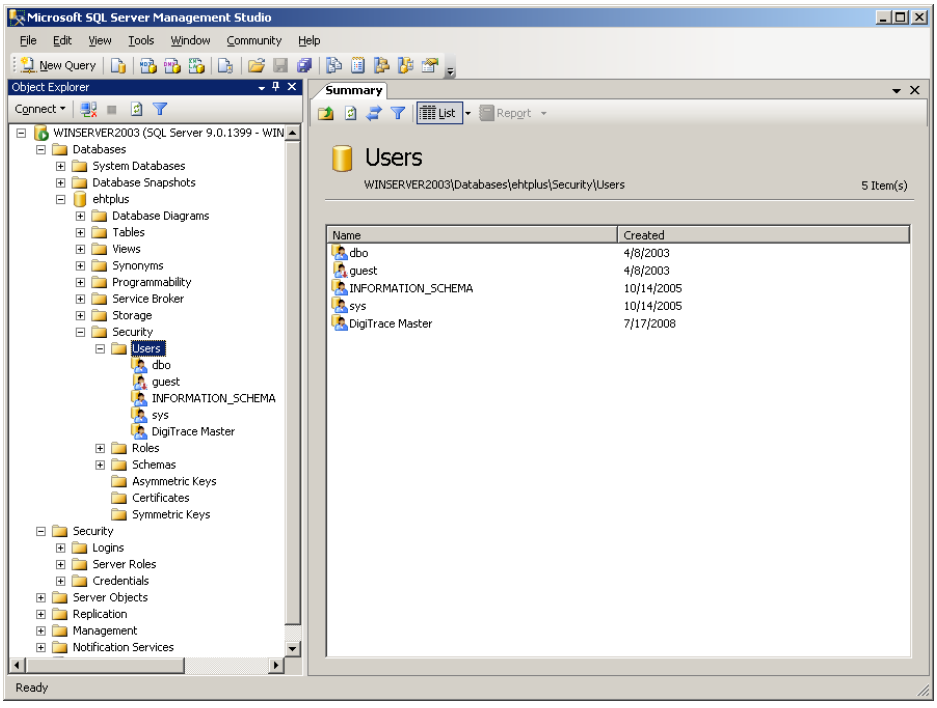

Figure 3-8-23 Users

You can now close the Microsoft SQL Server Management Studio.

3.8.5 CONFIGURING MICROSOFT SQL 2008 WITH THE (DTS) MASTER SERVER

SQL Server 2008 must be configured to allow the Master Server to connect to it. Do this by clicking on START→ PROGRAMS→ MICROSOFT SQL SERVER 2008→ SQL SERVER MANAGEMENT STUDIO. You will be prompted to login to the SQL database Server.

Figure 3-8-24 Connect to Server

Once the connection is successful navigate to WIN-432TYFQNQKB→ DATABASES→ EHTPLUS→ LOGINS.

IMPORTANT: In the example above, the Database Server name is "WIN-432TYFQNQKB". In your application, this will be replaced by the Database Server name that was assigned during the database server installation process (refer to Section 3.6, Figure 3-6-6).

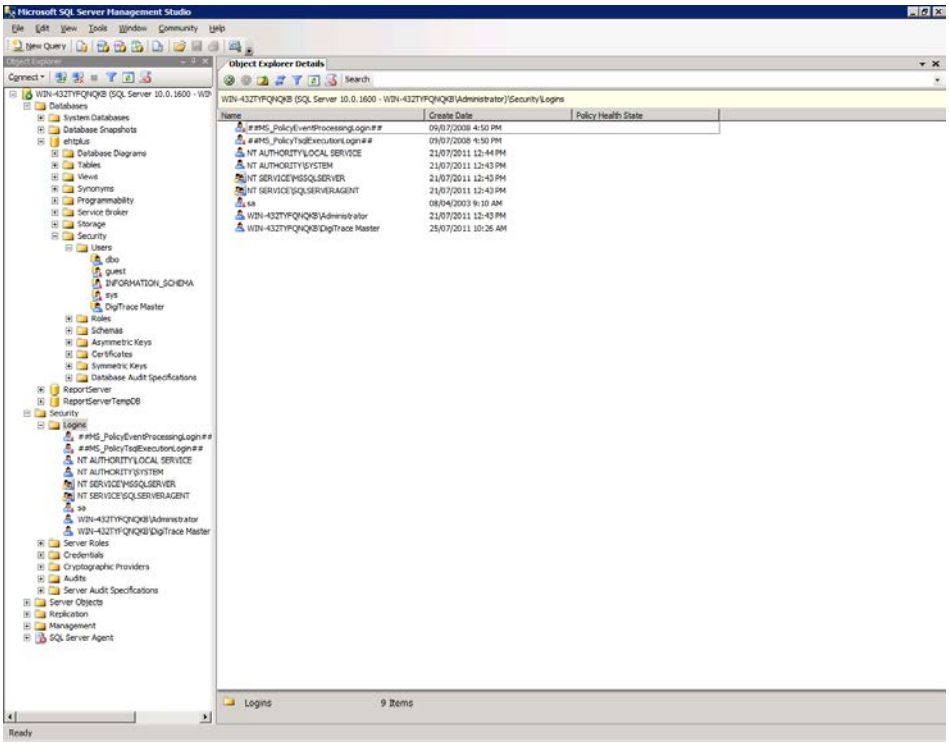

Figure 3-8-25 Microsoft SQL Server Management Studio Logins

Right Click on the right hand side of the screen and choose New Logins. Enter the name that was previously created in section 3.6.3 (i.e. DigiTrace Master). The Authentication and Defaults fields will automatically be populated with the appropriate information once the new login has been added. Do not modify these settings. Click "OK" to accept.

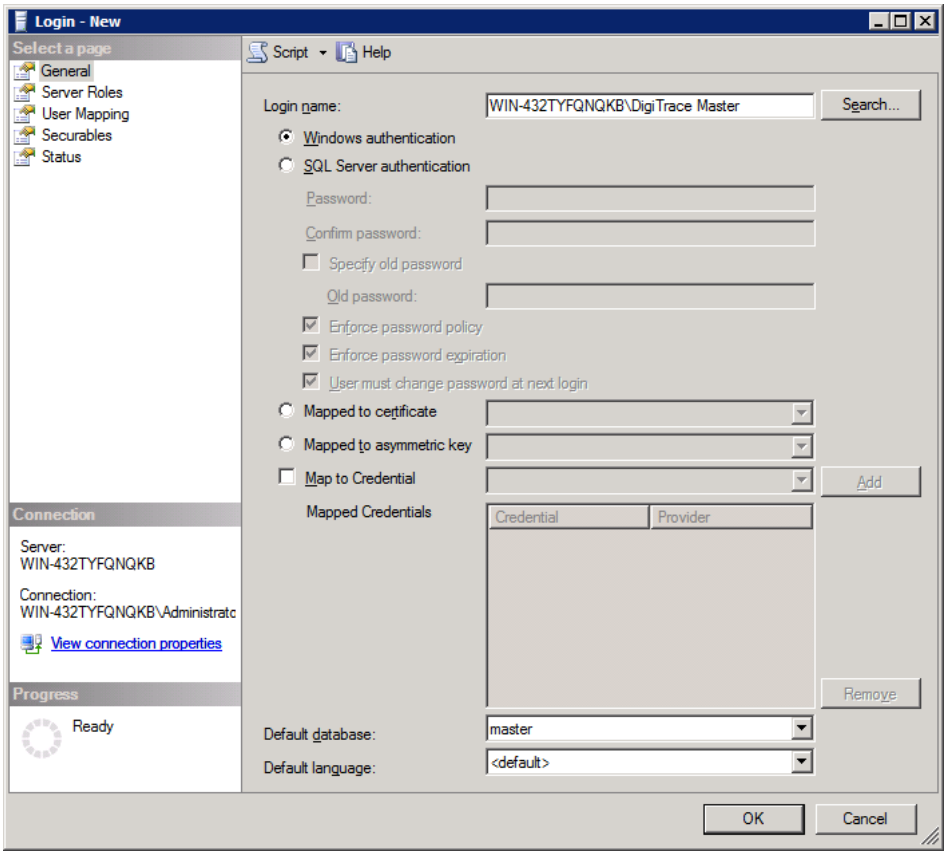

Figure 3-8-26 New Login

After you've successfully added the new Login, navigate to WIN-432TYFQNQKB→ DATABASES→ EHTPLUS→ SECURITY→ USERS and add a new user. Enter a new user name such as DigiTrace Master and use the browse button to select the previously created Login name "DigiTrace Master" for the Login name field. Select db_accessadmin and db_owner for both Owned Schemas and Role Members field. Click "OK" to save the new user.

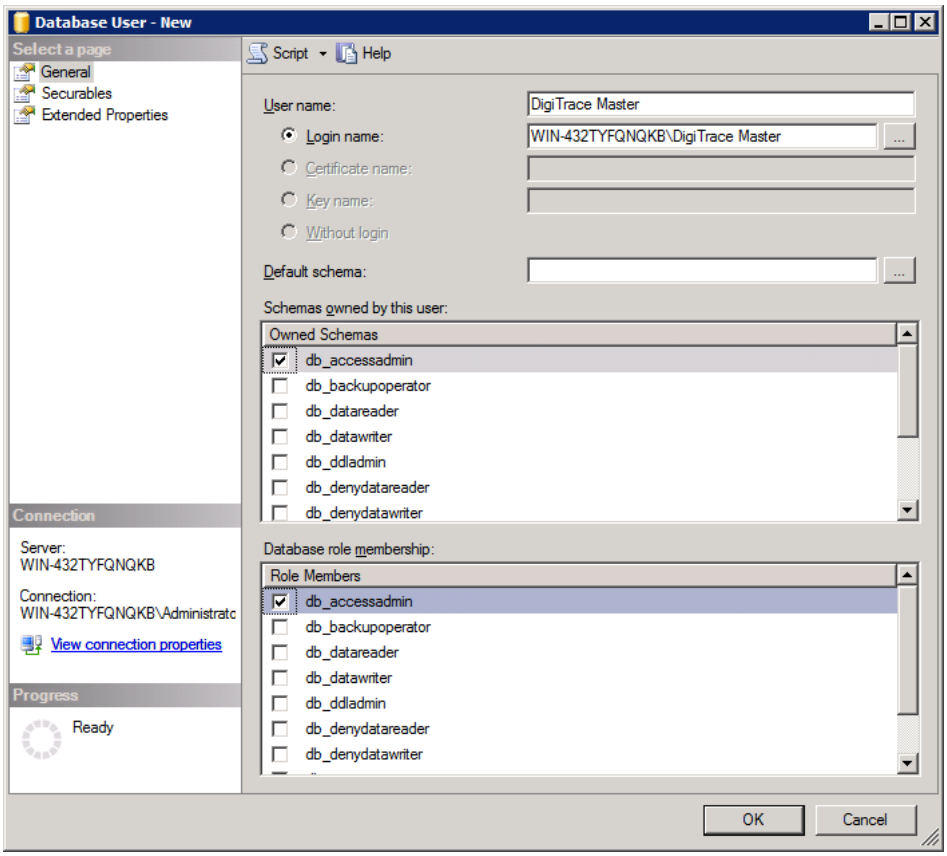

Figure 3-8-27 Add a new database user

After you successfully added the new user, it will appear in the Users screen.

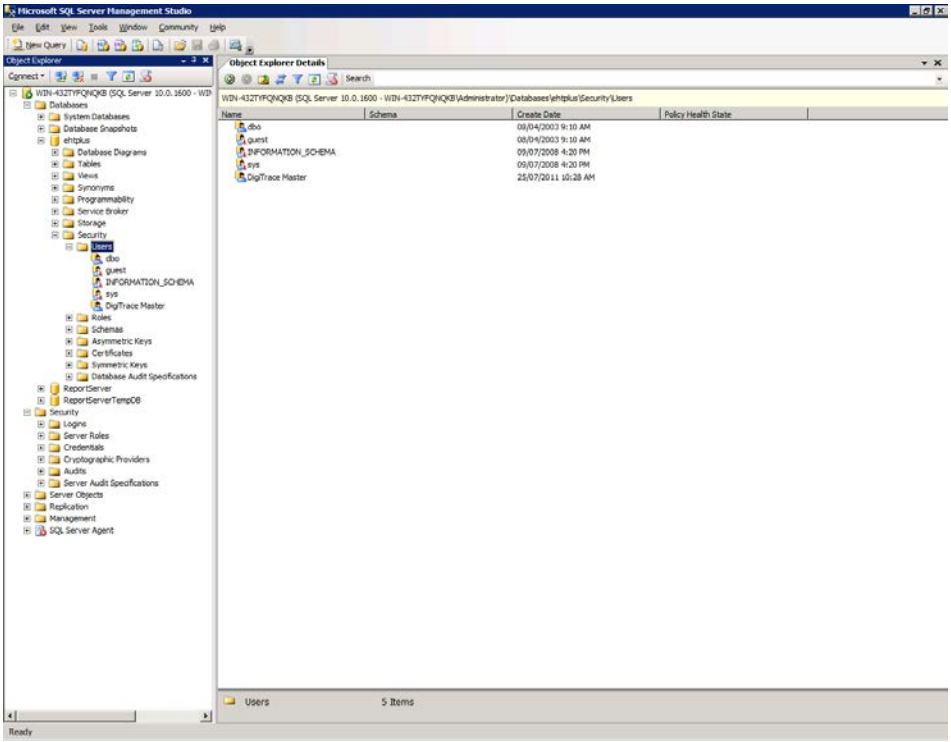

Figure 3-8-28 Users

You can now close the Microsoft SQL Server Management Studio.

3.8.6 STARTING THE DTS MASTER SERVER SERVICE

The DigiTrace Supervisor Master Server service must now be started. This can be accomplished by either of the methods described in Section 3.2.2 .

3.8.7 INSTALLING THE DIGITRACE SUPERVISOR (DTS) SLAVE SERVER

To start the DigiTrace Slave Server installation, insert the "DigiTrace Supervisor Disk 1 – Application and Utilities" CD (SQL versions) into the PC's CD-Rom drive. Navigate to the Installation folder and double click on the DTSSlaveServerSetup.exe file. The installation begins by checking the computer for software components that are required to run DigiTrace Supervisor. If there are some required components missing, it will install them for you. You may be asked to reboot your computer during the installation of those components, please select Yes to reboot.

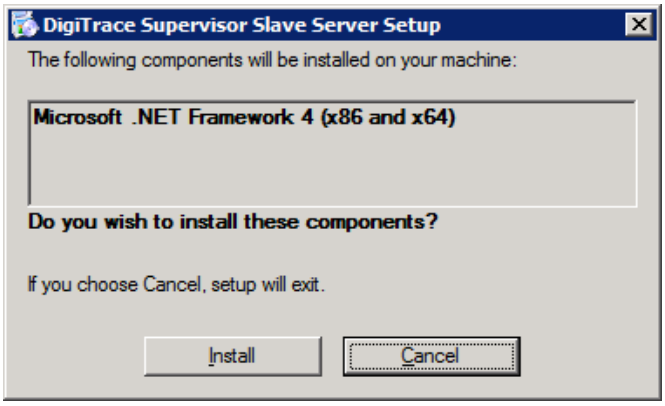
DigiTrace Supervisor Slave Server Setup
The following components will be installed on your machine:
Microsoft .NET Framework 4 (x86 and x64)
Do you wish to install these components?
If you choose Cancel, setup will exit.
Install
Cancel

Figure 3-8-29 Setup screen showing missing components to be installed

If there are no missing components the "Welcome to the DigiTrace Supervisor Slave Server Setup Wizard" screen will appear. Click on "Next" to continue to the License Agreement.

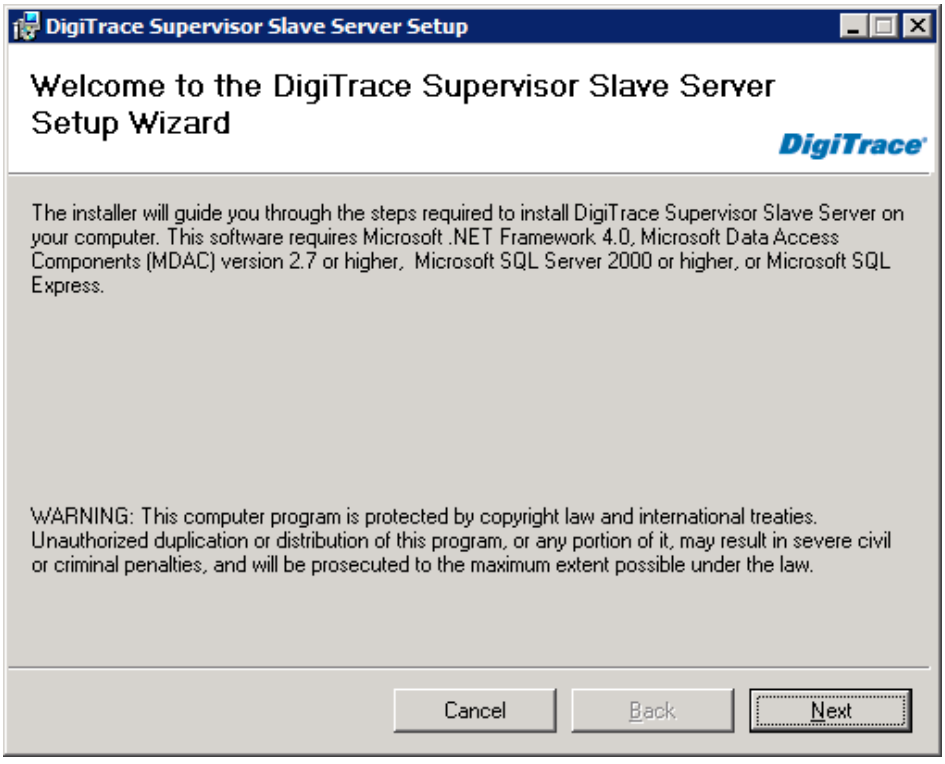
DigiTrace Supervisor Slave Server Setup
Welcome to the DigiTrace Supervisor Slave Server Setup Wizard
DigiTrace
The installer will guide you through the steps required to install DigiTrace Supervisor Slave Server on your computer. This software requires Microsoft .NET Framework 4.0, Microsoft Data Access Components (MDAC) version 2.7 or higher, Microsoft SQL Server 2000 or higher, or Microsoft SQL Express.
WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.
Cancel
Back
Next

Figure 3-8-30 Welcome screen for DTS Slave Server installation

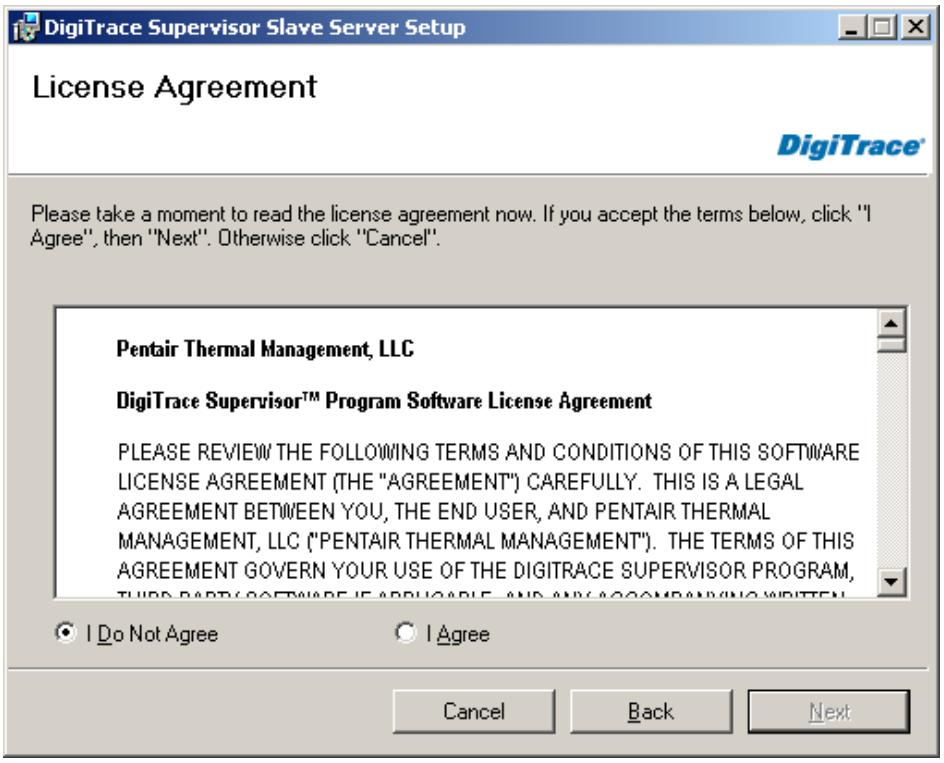
DigiTrace Supervisor Slave Server Setup
License Agreement
DigiTrace
Please take a moment to read the license agreement now. If you accept the terms below, click "I Agree", then "Next". Otherwise click "Cancel".
Pentair Thermal Management, LLC
DigiTrace Supervisor™ Program Software License Agreement
PLEASE REVIEW THE FOLLOWING TERMS AND CONDITIONS OF THIS SOFTWARE LICENSE AGREEMENT (THE "AGREEMENT") CAREFULLY. THIS IS A LEGAL AGREEMENT BETWEEN YOU, THE END USER, AND PENTAIR THERMAL MANAGEMENT, LLC ("PENTAIR THERMAL MANAGEMENT"). THE TERMS OF THIS AGREEMENT GOVERN YOUR USE OF THE DIGITRACE SUPERVISOR PROGRAM,
I Do Not Agree
I Agree
Cancel
Back
Next

Figure 3-8-31 License Agreement for DTS Slave Server

Continue with the next few screens until the Installation complete screen.

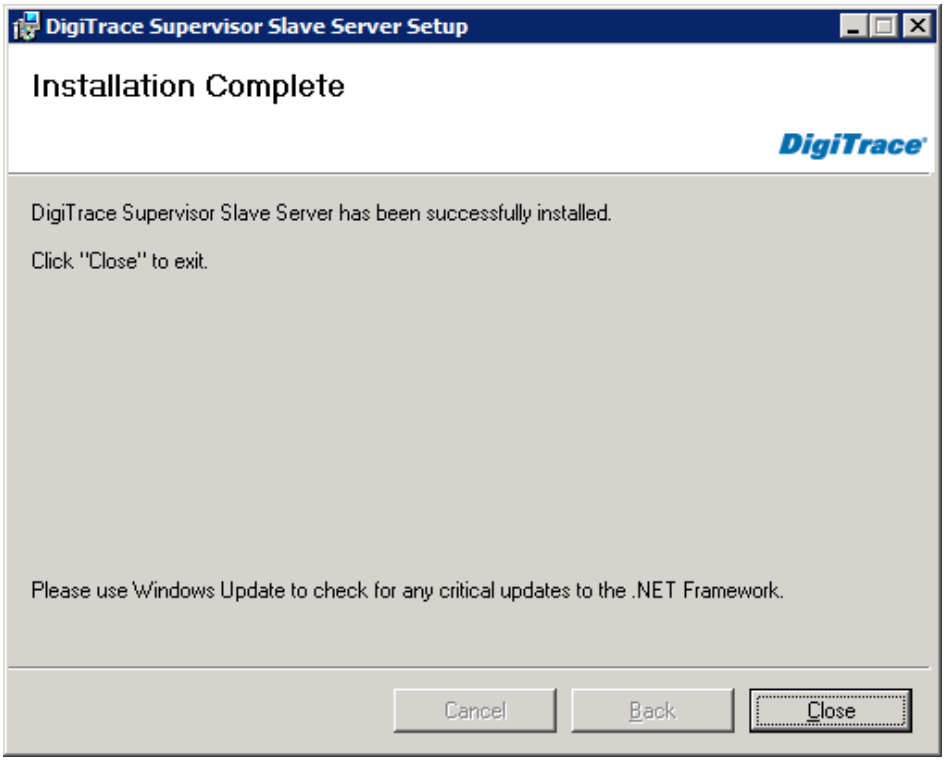
DigiTrace Supervisor Slave Server Setup
Installation Complete
DigiTrace
DigiTrace Supervisor Slave Server has been successfully installed.
Click "Close" to exit.
Please use Windows Update to check for any critical updates to the .NET Framework.
Cancel
Back
Close

Figure 3-8-32 DTS Slave Server Installation Completed

3.8.8 STARTING THE DTS SLAVE SERVER SERVICE

The DigiTrace Supervisor Slave Server service should now be started. If for some reason it is not, please follow the methods described in Section 3.2.2, 3.2.2 . The Windows Services are listed in the Services Applet, under Control Panel->Administrative Tools\Component Services.

3.8.9 INSTALLING DIGITRACE SUPERVISOR (DTS) CLIENT

To start the DigiTrace Client installation, insert the "DigiTrace Supervisor Disk 1 – Application and Utilities" CD (SQL versions) into the PC's CD-Rom drive. Navigate to the Installation folder and double click on the DTSClientSetup.exe file. The installation begins by checking the computer for software components that are required to run DigiTrace Supervisor. If there are some required components missing, it will install them for you. You may be asked to reboot your computer during the installation of those components, please select Yes to reboot.

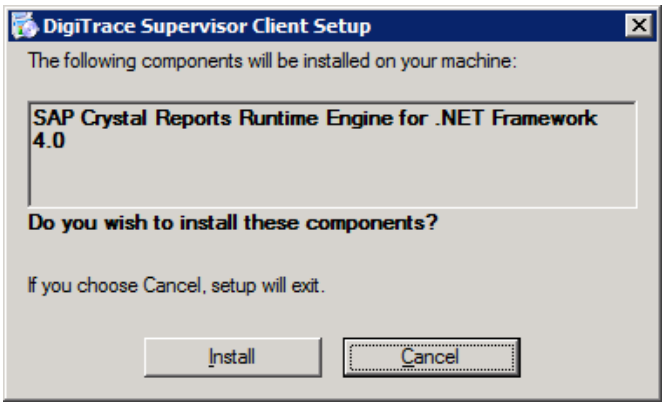
DigiTrace Supervisor Client Setup
The following components will be installed on your machine:
SAP Crystal Reports Runtime Engine for .NET Framework 4.0
Do you wish to install these components?
If you choose Cancel, setup will exit.
Install
Cancel

Figure 3-8-33 Setup screen showing missing components to be installed

If there are no missing components the "Welcome to the DigiTrace Supervisor Client Setup Wizard" screen will appear. Click on "Next" to continue.

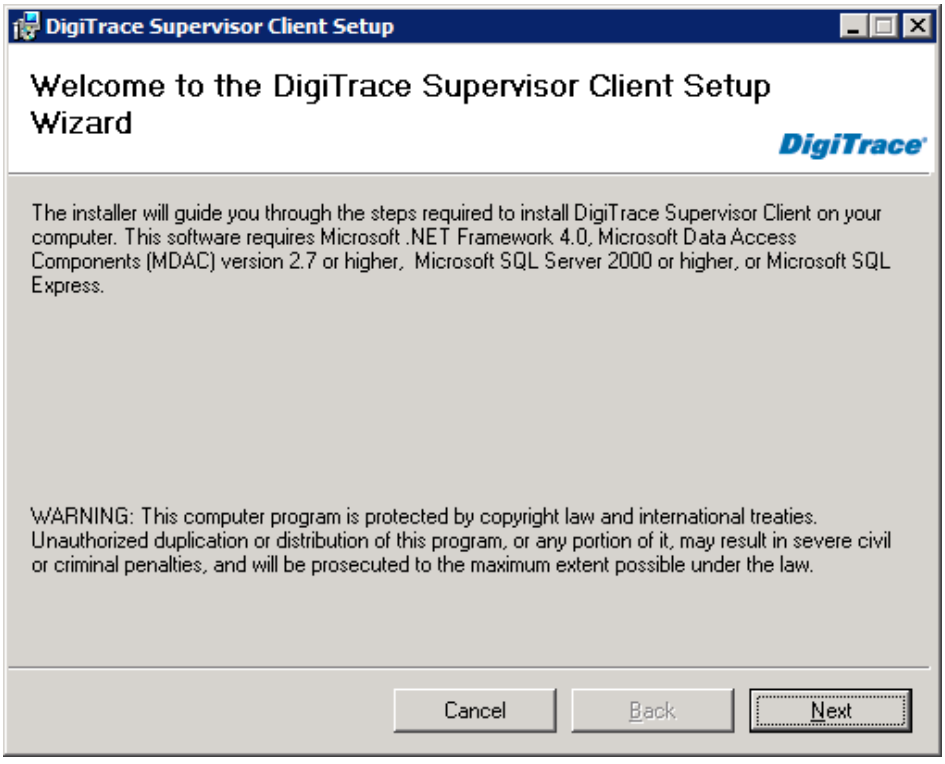
DigiTrace Supervisor Client Setup
Welcome to the DigiTrace Supervisor Client Setup Wizard
DigiTrace
The installer will guide you through the steps required to install DigiTrace Supervisor Client on your computer. This software requires Microsoft .NET Framework 4.0, Microsoft Data Access Components (MDAC) version 2.7 or higher, Microsoft SQL Server 2000 or higher, or Microsoft SQL Express.
WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.
Cancel
Back
Next

Figure 3-8-34 Welcome screen for DTS Client installation

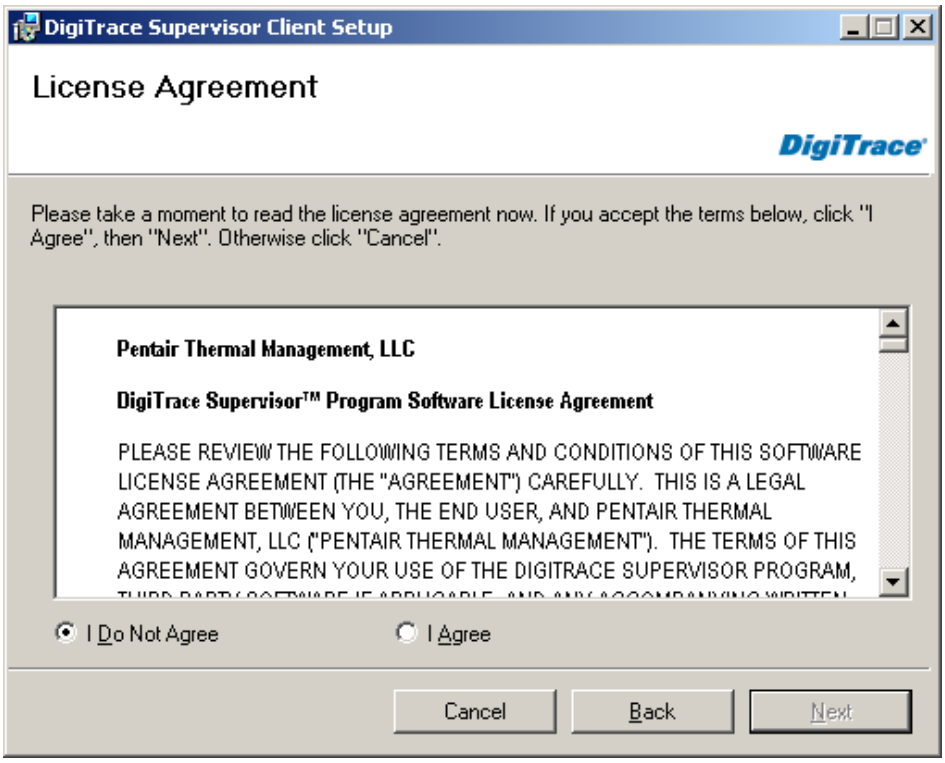
DigiTrace Supervisor Client Setup
License Agreement
DigiTrace
Please take a moment to read the license agreement now. If you accept the terms below, click "I Agree", then "Next". Otherwise click "Cancel".
Pentair Thermal Management, LLC
DigiTrace Supervisor™ Program Software License Agreement
PLEASE REVIEW THE FOLLOWING TERMS AND CONDITIONS OF THIS SOFTWARE LICENSE AGREEMENT (THE "AGREEMENT") CAREFULLY. THIS IS A LEGAL AGREEMENT BETWEEN YOU, THE END USER, AND PENTAIR THERMAL MANAGEMENT, LLC ("PENTAIR THERMAL MANAGEMENT"). THE TERMS OF THIS AGREEMENT GOVERN YOUR USE OF THE DIGITRACE SUPERVISOR PROGRAM,
I Do Not Agree
I Agree
Cancel
Back
Next

Figure 3-8-35 License Agreement for DTS Client

Continue with the next screens until the Installation complete screen.

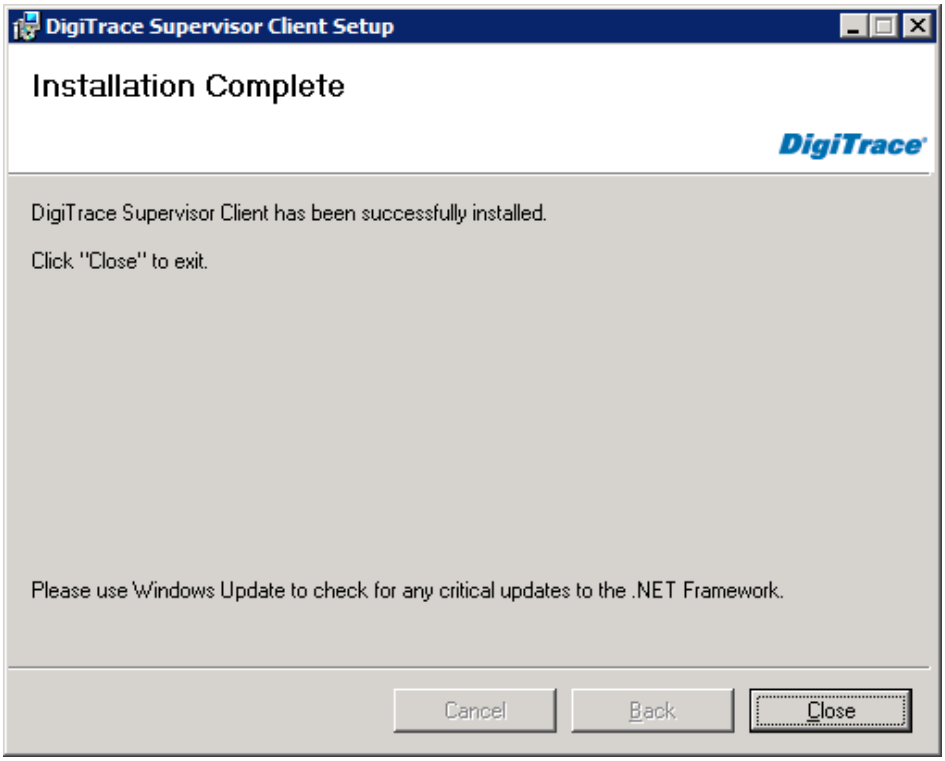

Figure 3-8-36 DTS Client Installation Completed

You can now start the DTS Client software by locating the DTSClient icon on your desktop and double click on it.

Figure 3-8-37 DTS Client Icon

3.9 Uninstalling DigiTrace Supervisor

Prior to removing any DigiTrace Supervisor components from your computer system, back up your DigiTrace Supervisor database. (Refer to Section 15.2.1 in the *DigiTrace Supervisor Operations Manual* (H57576) for instructions on the proper backup procedure.)

3.9.1 UNINSTALLING DIGITRACE SUPERVISOR (DTS) MASTER SERVER

You may remove DigiTrace Supervisor Master Server from your computer system by following these steps:

1. Click the START button, then Select Control Panel.
2. Double-Click Add/Remove Programs.
3. In the list of installed programs, select DigiTrace Supervisor Master Server. Click on the Remove button.
4. Follow the instructions that appear on the screen.

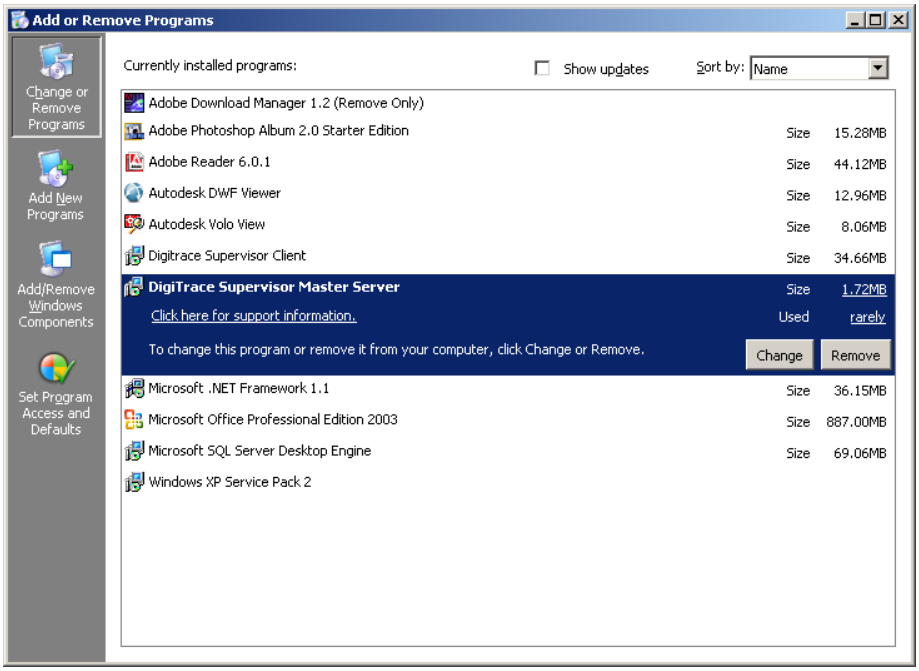

Figure 3-9-1 Remove DTS master server

3.9.2 UNINSTALLING DIGITRACE SUPERVISOR (DTS) SLAVE SERVER

You may remove DigiTrace Supervisor Slave Server from your computer system by following the following steps:

1. Click the START button, then Select Control Panel.
2. Double-Click Add/Remove Programs.
3. In the list of installed programs, select DigiTrace Supervisor Slave Server. Click on the Remove button.
4. Follow the instructions that appear on the screen.

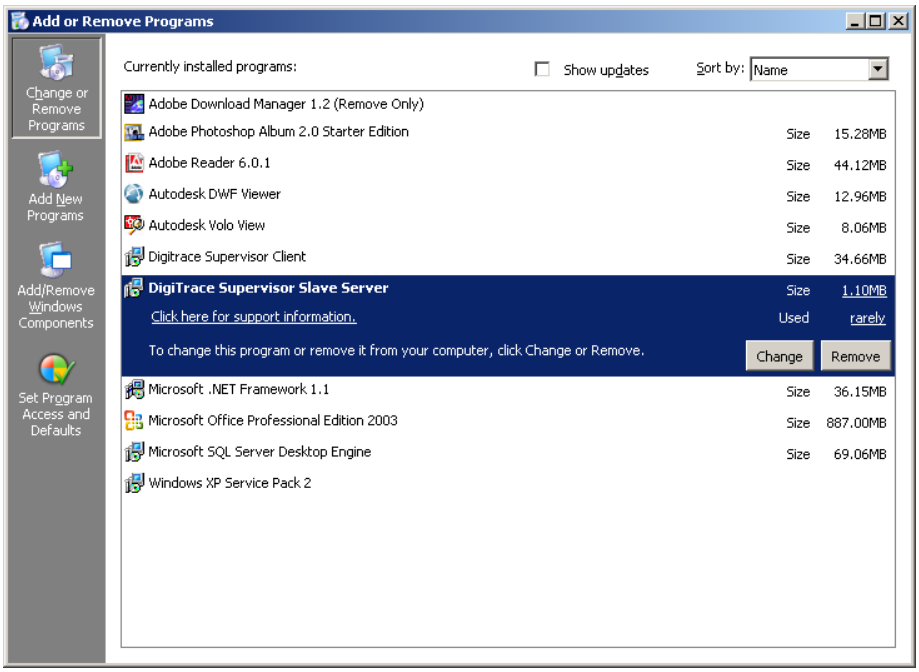

Figure 3-9-2 Remove DTS slave server

3.9.3 UNINSTALLING DIGITRACE SUPERVISOR (DTS) CLIENT

You may remove DigiTrace Supervisor Slave Server from your computer system by following the following steps:

1. Click the START button, then Select Control Panel.
2. Double-Click Add/Remove Programs.
3. In the list of installed programs, select DigiTrace Supervisor Client. Click on the Remove button.
4. Follow the instructions that appear on the screen.

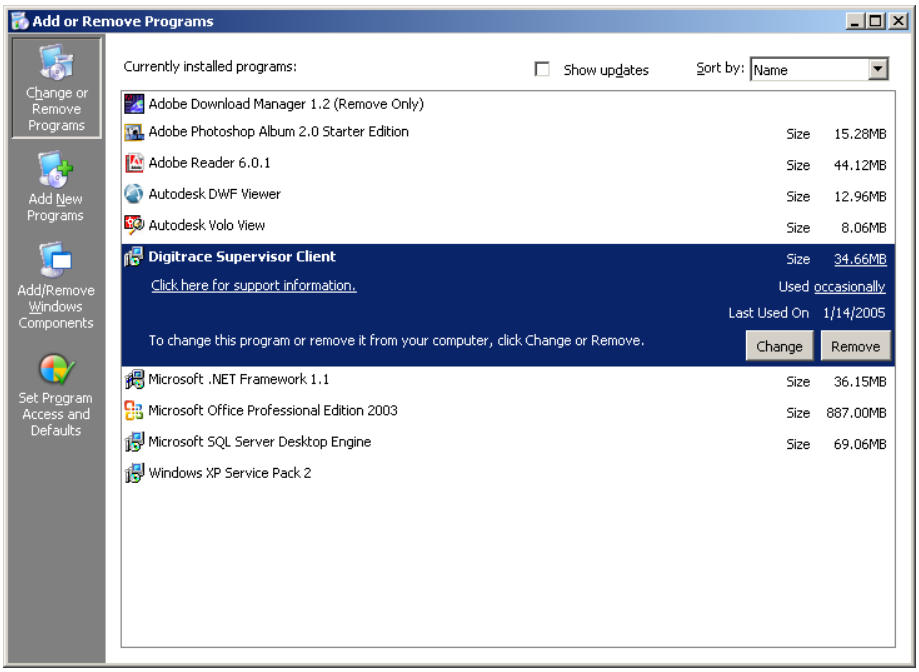

Figure 3-9-3 Remove DTS client

Section 4 – Software Activation and Registration

Please refer to Section 16 in the DTS Operations Manual.

Appendix A – Troubleshooting

A-1 Installation Errors

Cannot install Master Server due to database error

- Ensure that the Microsoft SQL Server is properly installed and running on the computer where you are installing DigiTrace Supervisor.
- Verify that the Master Server name has been typed in correctly.
- If DTS Master Server does not install, ensure that there is no MSSQL file in the folder C:\Program Files\Microsoft SQL Server. This may be left over from a previous installation and will prevent the installation from completing.

Install error 1604 encountered installing Crystal Reports Runtime Engine

- Try running the installation setup again. This might happen if the installation setup files are stored in a network drive instead of the local drive.

Unexpected Installation errors encountered

If there are unexpected errors encountered during the installation, check that the Windows Operating system meets the minimum software requirement needed to install DigiTrace Supervisor. Upgrade to the latest version if possible.

A-2 Communication Errors

Communication Failures

When DigiTrace Supervisor is connected to GCCs and HTC-direct controllers using a 2-wire RS-485 configuration make sure that the Tx Delay setting for each GCC and HTC-direct controller is set to at least 0.06 seconds. This will ensure that the GCC or HTC-direct devices do not start to transmit a reply until DigiTrace Supervisor has turned off its driver.

A-3 Other Errors

Some text does not display properly in the "Help About" screen

- If you are using McAfee Virus Scan software, you may have to disable the "Buffer Overflow Protection" option in the McAfee setup to eliminate this problem.

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